SECTOR ANALYSIS

A labor market analysis of industry sectors in Imperial County

DRAFT: April 2021









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EXECUTIVE SUMMARY

The San Diego-Imperial Center of Excellence for Labor Market Research (COE) analyzed 11 regional industry sectors in this study to assist the San Diego and Imperial Counties Community Colleges with strategic planning and program development:

- Advanced Manufacturing
- Advanced Transportation and Logistics
- Agriculture, Water, and Environmental Technologies
- Business and Entrepreneurship
- Education and Human Development
- Energy, Construction, and Utilities

- Health
- Retail, Hospitality, and Tourism
- Information and Communication
 Technologies (ICT) and Digital Media
- Life Sciences and Biotechnology
- Public Safety and Government

After examining 15 different metrics from two labor market data systems—North American Industry Classification System (NAICS) and Standard Occupational Classification (SOC)—for these 11 sectors, the San Diego-Imperial COE ranked each sector according to two different point systems:

| Sect | or Rankings Based on Top 5 Sectors by I | Metric | | Sector Rankings Based on Order in Metr | ic |
|------|---|--------|------|--|--------|
| Rank | Sector | Points | Rank | Sector | Points |
| 1. | Advanced Transportation and Logistics | 10 | 1. | Health | 110 |
| 1. | Education and Human Development | 10 | 2. | Education and Human Development | 109 |
| 2. | Health | 9 | 3. | Advanced Transportation and Logistics | 106 |
| 3. | Business and Entrepreneurship | 8 | 4. | Public Safety and Government | 100 |
| 4. | Energy, Construction, and Utilities | 6 | 5. | Business and Entrepreneurship | 99 |
| 4. | Ag, Water, and Environmental Tech | 6 | 6. | Ag, Water, and Environmental Tech | 90 |
| 4. | Life Sciences and Biotechnology | 6 | 7. | Energy, Construction, and Utilities | 88 |
| 4. | Public Safety and Government | 6 | 8. | Life Sciences and Biotechnology | 80 |
| 5. | ICT and Digital Media | 5 | 9. | Retail, Hospitality, and Tourism | 79 |
| 5. | Retail, Hospitality, and Tourism | 5 | 10. | ICT and Digital Media | 70 |
| 6. | Advanced Manufacturing | 4 | 11. | Advanced Manufacturing | 59 |

The San Diego-Imperial COE encourages the San Diego and Imperial Counties Community Colleges to use this study as a resource for meaningful discussions as they decide on which sectors to prioritize as a region. This study should **not** be the only basis for determining the region's priority sectors.

¹ cccco.edu/About-Us/Chancellors-Office/Divisions/Workforce-and-Economic-Development/Strong-Workforce-Program/Events/K12-SWP-Industry-Sector-Crosswalk. Accessed April 6, 2021.

INTRODUCTION

The San Diego-Imperial Center of Excellence for Labor Market Research (COE) analyzed regional industry sectors in this study to assist the San Diego and Imperial Counties Community Colleges with strategic planning and program development. According to the California Community Colleges Chancellor's Office (CCCCO), there are 11 key sectors in California:²

- Advanced Manufacturing
- Advanced Transportation and Logistics
- Agriculture, Water, and Environmental Technologies
- Business and Entrepreneurship
- Education and Human Development
- Energy, Construction, and Utilities

- Health
- Retail, Hospitality, and Tourism
- Information and Communication
 Technologies (ICT) and Digital Media
- Life Sciences and Biotechnology
- Public Safety and Government

To analyze these sectors, the San Diego-Imperial COE first had to define what they are. Depending on the research methodology, researchers can define sectors using program codes from the Taxonomy of Programs (TOP)³ or Classification of Instruction (CIP)⁴ systems, occupational codes from the Standard Occupational Classification (SOC) system⁵, or industry codes from the North American Industry Classification System (NAICS)⁶. For this study, the San Diego-Imperial COE defined and analyzed the sectors using both NAICS and SOC codes. NAICS provides labor market information (LMI) on companies and SOC provides LMI on occupations. Put differently, NAICS codes provide a "vertical" analysis of the sectors while SOC codes provide a "horizontal" analysis. As seen in Exhibit I, SOC codes or occupations are employed across companies in different industries such as manufacturing or health.

Exhibit I: "Vertical" Analysis of Sectors Using NAICS Codes vs. "Horizontal" Analysis Using SOC Codes

Manufacturing Companies
(NAICS 31-33)

Health Companies
(NAICS 62)

Business and Financial Occupations (SOC 13-0000)

4

² cccco.edu/About-Us/Chancellors-Office/Divisions/Workforce-and-Economic-Development/Strong-Workforce-Program/Events/K12-SWP-Industry-Sector-Crosswalk. Accessed April 6, 2021.

 $^{^3\} cccco.edu/-/media/CCCCO-Website/About-Us/Divisions/Digital-Innovation-and-discounts-order-$

Infrastructure/Research/Files/TOP manual 6200909 corrected 12513.pdf?la=en&hash=26CCD79E15C26BC0F48CAB37F219731E29E6CA5B4nces.ed.gov/ipeds/cipcode/Default.aspx?y=56

⁵ The Standard Occupational Classification (SOC) system is used by federal statistical agencies to classify workers into occupational categories for the purpose of collecting, calculating or disseminating data. bls.gov/soc.

⁶ census.gov/naics

For this study, the San Diego-Imperial COE analyzed LMI between 2010 and 2020. During this period, Imperial County experienced a seven percent job growth, with 66 thousand jobs in 2010 to 70 thousand jobs in 2020 (Exhibit II). The San Diego-Imperial COE did not use any projections data due to uncertainties in the labor market as a result of the COVID-19 pandemic, which began in 2020.

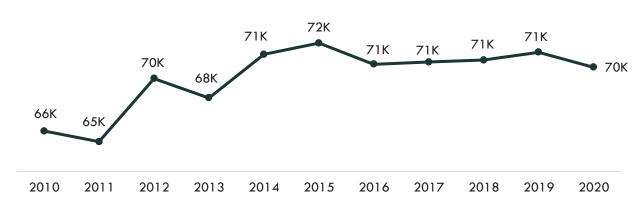


Exhibit II: Number of Jobs in Imperial County (2010-2020)7

This study is divided into three parts: Part I analyzes LMI by NAICS codes, using metrics selected by the region's community college stakeholders. Part II analyzes LMI by SOC codes, and Part III ranks the sectors based on the metrics analyzed in Parts I and II. (For more information on the methodology, see Appendix A.)

The San Diego-Imperial COE encourages the San Diego and Imperial Counties Community Colleges to use this study as a resource for meaningful discussions as they decide which sectors to prioritize as a region. This report should not be used as the sole basis for decision making.

IMPORTANT DISCLAIMERS

All representations included in this report have been produced from primary research and/or secondary review of publicly and/or privately available data and/or research reports. This study examines the most recent data available at the time of the analysis; however, data sets are updated regularly and may not be consistent with previous reports. Efforts have been made to qualify and validate the accuracy of the data and the report findings; however, neither the Centers of Excellence for Labor Market Research (COE), COE host district, nor California Community Colleges Chancellor's Office are responsible for the applications or decisions made by individuals and/or organizations based on this study or its recommendations.

⁷ EMSI 2021.01; QCEW, Non-QCEW, Self-Employed. All NAICS codes.

PART I: ANALYSIS BY NAICS CODES

In this section, the San Diego-Imperial COE analyzed available labor market information from the North American Industry Classification (NAICS) system for the 11 sectors. Metrics available by NAICS codes include:

- # of Jobs (2020)
- % Job Change (2010-2020)
- Average Earnings by Job (2020)
- % Change in Average Earnings by Job (2010-2020)
- # of Establishments (2020)
- % Change in Establishments (2010-2020)
- % Workers Age 55+ (2020)
- Jobs Multipliers (2020)

EMPLOYMENT AND JOBS

Based on NAICS codes, the five sectors with the greatest number of jobs in 2020 were 1) Public Safety and Government; 2) Agriculture, Water, and Environmental Technologies; 3) Retail, Hospitality, and Tourism; 4) Education and Human Development; and 5) Business and Entrepreneurship (Exhibit 1).



Exhibit 1: Number of Jobs by Sector in Imperial County (2020)8

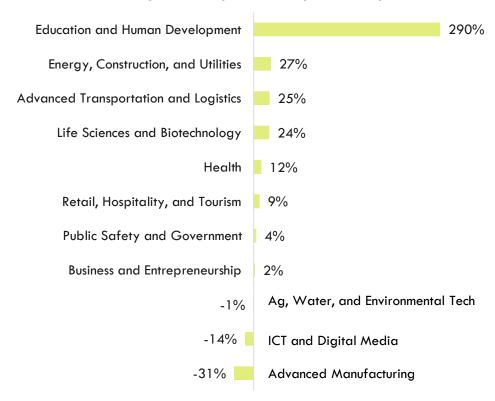
337

Life Sciences and Biotechnology

⁸ EMSI 2021.01; QCEW, Non-QCEW, Self-Employed. Industry groups (sectors) defined by NAICS codes in Appendix B.

Between 2010 and 2020, the five sectors with the most percentage job growth were 1) Education and Human Development; 2) Energy, Construction, and Utilities; 3) Advanced Transportation and Logistics; 4) Life Sciences and Biotechnology; and 5) Health (Exhibit 2).

Exhibit 2: Percent Change in Jobs by Sector in Imperial County (2010-2020)9



⁹ EMSI 2021.01; QCEW, Non-QCEW, Self-Employed. Industry groups (sectors) defined by NAICS codes in Appendix B.

EARNINGS AND WAGES

In 2020, the top five sectors with the most average earnings by job were 1) Public Safety and Government; 2) Energy, Construction, and Utilities; 3) Health; 4) Advanced Manufacturing; and 5) Life Sciences and Biotechnology (Exhibit 3).



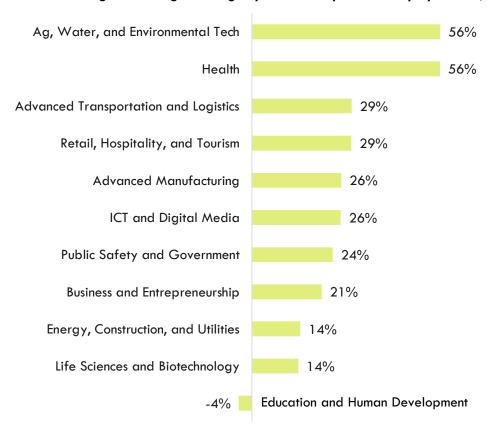
Exhibit 3: Average Earnings by Job10 in Imperial County by Sector (2020)11

¹⁰ "Average earnings by job" is the total earnings of all NAICS in the sector (including wages, salaries, profits, benefits and other compensation), divided by the total number of jobs across the sector. EMSI 2021.01; QCEW, Non-QCEW, Self-Employed.

¹¹ EMSI 2021.01; QCEW, Non-QCEW, Self-Employed. Industry groups (sectors) defined by NAICS codes in Appendix B.

Between 2010 and 2020, the top five sectors with the greatest change in average earnings by job were 1) Agriculture, Water, and Environmental Technologies; 2) Health; 3) Advanced Transportation and Logistics; 4) Retail, Hospitality, and Tourism; and 5) Advanced Manufacturing (Exhibit 4).

Exhibit 4: Percent Change in Average Earnings by Job12 in Imperial County by Sector (2010-2020)13



¹² "Average earnings by job" is the total earnings of all NAICS in the sector (including wages, salaries, profits, benefits and other compensation), divided by the total number of jobs across the sector. EMSI 2021.01; QCEW, Non-QCEW, Self-Employed.

¹³ EMSI 2021.01; QCEW, Non-QCEW, Self-Employed. Industry groups (sectors) defined by NAICS codes in Appendix B.

ESTABLISHMENTS OR BUSINESSES

In 2020, Education and Human Development had the greatest number of establishments, with 5,145 establishments in Imperial County. Of the 5,145 establishments in this sector, 5,071 were from the NAICS industry code, Services for the Eldery and Persons with Disaiblities (624120). An establishment is a single physical location of a business. A single company may have multiple establishments. Five sectors with the greatest number of establishments in Imperial County in 2020 were 1) Education and Human Development; 2) Retail, Hospitality, and Tourism; 3) Business and Entrepreneurship; 4) Agriculture, Water, and Environmental Technologies; and 5) Advanced Transportation and Logistics (Exhibit 5).

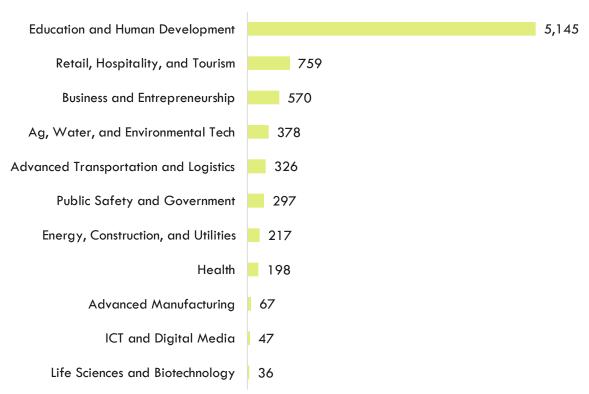


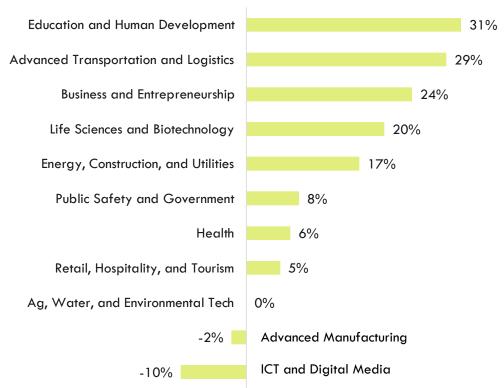
Exhibit 5: Number of Establishments by Sector in Imperial County (2020)¹⁵

¹⁴ kb.emsidata.com/analyst/glossary/#e

¹⁵ EMSI 2021.01; QCEW, Non-QCEW, Self-Employed. Industry groups (sectors) defined by NAICS codes in Appendix B.

Between 2013 and 2020, the number of Education and Human Development establishments in Imperial County increased from 3,916 to 5,145, which was a 31 percent change. (The baseline year was changed from 2010 to 2013 due to updates in coding and tracking of companies.) Five sectors with the greatest percentage increase in number of establishments in Imperial County during this period were 1) Education and Human Development; 2) Advanced Transportation and Logistics; 3) Business and Entrepreneurship; 4) Life Sciences and Biotechnology; and 5) Energy, Construction, and Utilities (Exhibit 6).

Exhibit 6: Percentage Change in Establishments by Sector in Imperial County (2013-2020)¹⁶



¹⁶ EMSI 2021.01; QCEW, Non-QCEW, Self-Employed. Industry groups (sectors) defined by NAICS codes in Appendix B.

WORKERS AGE 55+ OR NEARING RETIREMENT

A common workforce challenge is replacing workers with years of experience who are soon to retire. Of the 7,501 workers employed in the Education and Human Development sector in 2020 (Exhibit 2), 34 percent of them were near the retirement age in 2020 (Exhibit 7). According to NAICS data, five sectors with the greatest percentage of workers age 55 and above in 2020 were 1) Education and Human Development; 2) Agriculture, Water, and Environmental Technologies; 3) Business and Entrepreneurship; 4) Energy, Construction, and Utilities; and 5) Advanced Transportation and Logistics (Exhibit 7).

Exhibit 7: Percentage of Workers Age 55+ by Sector in Imperial County (2020)17

Education and Human Development 25% 9% 20% 9% Ag, Water, and Environmental Tech ■ % 55-64 years old 8% Business and Entrepreneurship 19% ■ % 65+ years old 20% 6% Energy, Construction, and Utilities Advanced Transportation and Logistics 20% 6% **Public Safety and Government** 19% 6% Advanced Manufacturing 19% Health 13% 6% ICT and Digital Media 14% Retail, Hospitality, and Tourism 12%

8% 4%

Life Sciences and Biotechnology

¹⁷ EMSI 2021.01; QCEW, Non-QCEW, Self-Employed. Industry groups (sectors) defined by NAICS codes in Appendix B.

JOBS MULTIPLIERS

A "jobs multiplier" indicates the total jobs added to the region as a result of a single job added to the sector. This number includes the yield and the initial job addition. For example, a jobs multiplier of 1.82 is made up of the initial job added (1.0) and the further yield (0.82), which includes direct and indirect jobs. For example, the Life Sciences and Biotechnology sector had a jobs multiplier of 5.08, which suggests that for each job added to the region in ICT and Digital Media, 4.08 other direct and indirect jobs are generated (Exhibit 8). The five sectors with the highest jobs multipliers in Imperial County are 1) Life Sciences and Biotechnology; 2) Retail, Hospitality, and Tourism; 3) Energy, Construction, and Utilities; 4) ICT and Digital Media; and 5) Public Safety and Government (Exhibit 8).



Exhibit 8: Jobs Multiplier by Sector in Imperial County¹⁹

¹⁸ EMSI 2021.01; EMSI's model, incorporating data from the Bureau of Economic Analysis (BEA).

¹⁹ EMSI 2021.01; QCEW, Non-QCEW, Self-Employed. Occupational groups (sectors) defined by SOC codes in Appendix C.

PART II: ANALYSIS BY SOC CODES

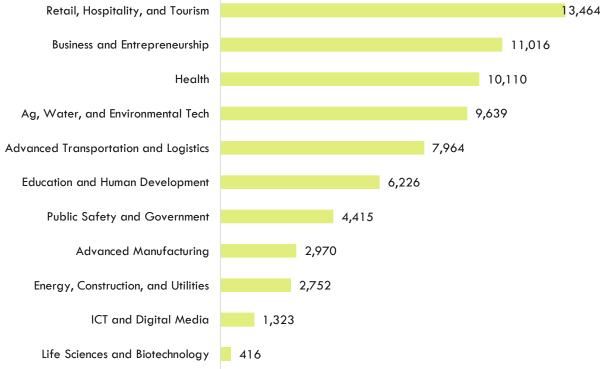
In this section, the San Diego-Imperial COE analyzed available labor market information using codes from the Standard Occupational Classification (SOC) system for the 11 sectors. Metrics available by SOC codes include:

- Average Annual Job Openings (2010-2020)
- % Job Change (2010-2020)
- Average Entry-Level Hourly Earnings (2020)
- Average Median Hourly Earnings (2020)
- % of Workers 55+ (2020)
- Location Quotient
- Average Automation Index

EMPLOYMENT AND JOBS

Based on SOC codes, the five sectors with the greatest number of jobs in 2020 were 1) Retail, Hospitality, and Tourism; 2) Business and Entrepreneurship; 3) Health; 4) Agriculture, Water, and Environmental Technologies; and 5) Advanced Transportation and Logistics (Exhibit 9).

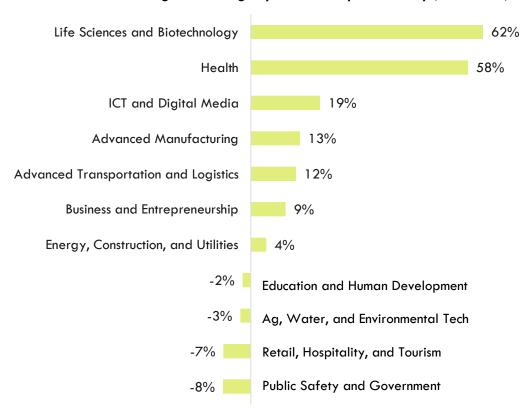




²⁰ EMSI 2021.01; QCEW, Non-QCEW, Self-Employed. Occupational groups (sectors) defined by SOC codes in Appendix C.

Between 2010 and 2020, the five sectors with the most percentage job growth were 1) Life Sciences and Biotechnology; 2) Health; 3) ICT and Digital Media; 4) Advanced Manufacturing; and 5) Advanced Transportation and Logistics (Exhibit 10).

Exhibit 10: Percentage Job Change by Sector in Imperial County (2010-2020)²¹



²¹ EMSI 2021.01; QCEW, Non-QCEW, Self-Employed. Occupational groups (sectors) defined by SOC codes in Appendix C.

ENTRY-LEVEL AND MEDIAN WAGES

Between 2010 and 2020, the five sectors with the highest entry-level²² hourly wages were 1) Health; 2) Public Safety and Government; 3) Education and Human Development; 4) ICT and Digital Media; and 5) Advanced Transportation and Logistics (Exhibit 11).

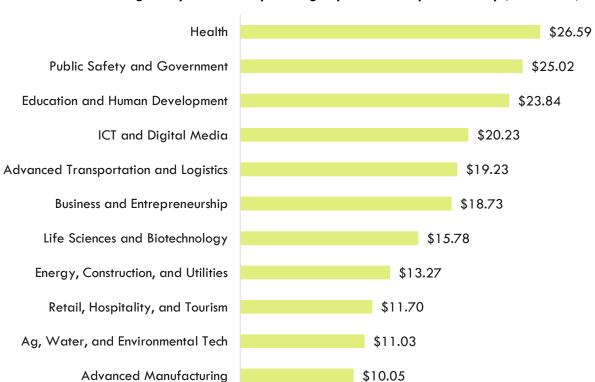


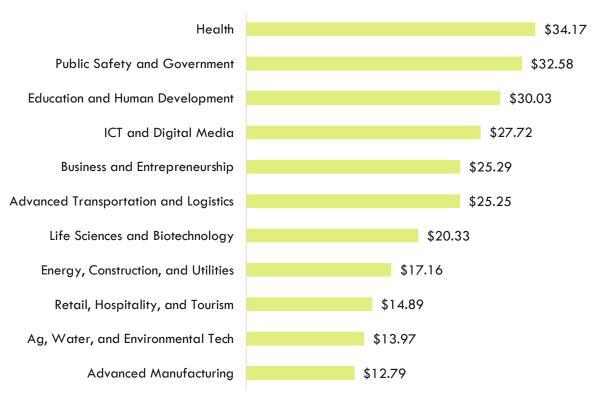
Exhibit 11: Average Entry-Level Hourly Earnings by Sector in Imperial County (2010-2020)²³

²² Entry-level wages are defined by 25th percentile earnings, with the assumption that individuals who obtain additional education (e.g., community college degrees and certificates) would make more than individuals who enter the labor market without prior work experience. Those individuals would presumably make entry-level wages at the 10th percentile.

²³ EMSI 2021.01; QCEW, Non-QCEW, Self-Employed. Occupational groups (sectors) defined by SOC codes in Appendix C.

Between 2010 and 2020, the five sectors with the highest median²⁴ hourly earnings were 1) Health; 2) Public Safety and Government; 3) Education and Human Development; 4) ICT and Digital Media; and 5) Business and Entrepreneurship (Exhibit 12).



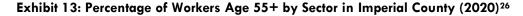


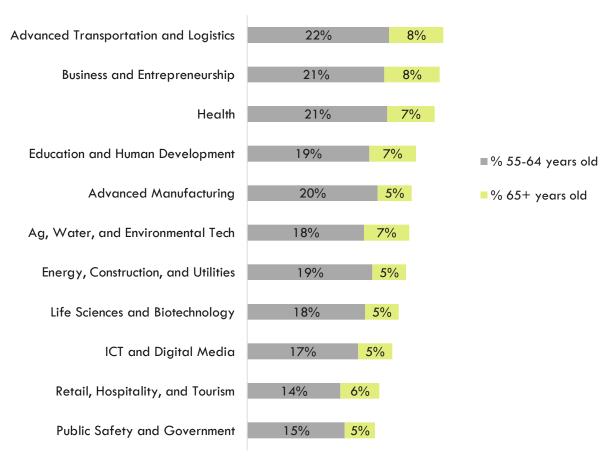
²⁴ Median hourly earnings indicate that half of workers in the occupation make more than the amount and half make less than the amount. Median hourly earnings are typically reviewed to show progression in career pathways as workers more beyond the entry-level or 25th percentile hourly earnings to the median hourly earnings.

²⁵ EMSI 2021.01; QCEW, Non-QCEW, Self-Employed. Occupational groups (sectors) defined by SOC codes in Appendix C.

WORKERS AGE 55+ OR NEARING RETIREMENT

A common workforce challenge is replacing workers with years of experience who are soon to retire. Of the 7,964 workers employed in the Advanced Transportation and Logistics sector in 2020 (Exhibit 9), 30 percent of them were near the retirement age in 2020 (Exhibit 13). According to SOC data, five sectors with the greatest percentage of workers age 55 and above in 2020 were 1) Advanced Transportation and Logistics; 2) Business and Entrepreneurship; 3) Health; 4) Education and Human Development; and 5) Advanced Manufacturing (Exhibit 13).





²⁶ EMSI 2021.01; QCEW, Non-QCEW, Self-Employed. Occupational groups (sectors) defined by SOC codes in Appendix C.

JOB CONCENTRATION (LOCATION QUOTIENT)

"Location quotient" is one way of quantifying how concentrated a sector is in a region compared to the overall nation.²⁷ The exhibit below illustrates the concentration of jobs in Imperial County by sector, with Agriculture, Water, and Environmental Technologies having the highest location quotient or LQ (Exhibit 14). The top five sectors with the highest LQ in 2020 were 1) Agriculture, Water, and Environmental Technologies; 2) Public Safety and Government; 3) Energy, Construction, and Utilities; 4) Advanced Transportation and Logistics; and 5) Education and Human Development (Exhibit 14).

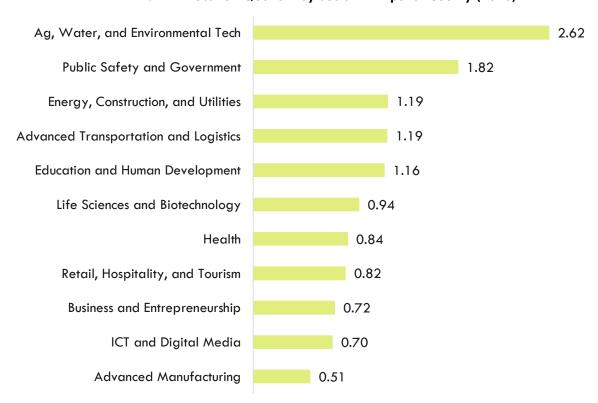


Exhibit 14: Location Quotient by Sector in Imperial County (2020)²⁸

 $^{^{27}\} economic modeling.com/2020/02/03/under standing-location-quotient-2$

²⁸ EMSI 2021.01; QCEW, Non-QCEW, Self-Employed. Occupational groups (sectors) defined by SOC codes in Appendix C.

AUTOMATION INDEX

An "automation index" captures an occupation's risk of being affected by automation using four measures:

- % of time spent on high-risk work
- % of time spent on low-risk work
- Number of high-risk jobs in compatible occupations
- Overall industry automation risk²⁹

This is a 100-based index, meaning that occupations with an automation index above 100 have an above average risk of automation, while occupations with an automation index of below 100 have a below average risk of automation.³⁰ The exhibit below illustrates the average automation index by sector, starting with Education and Human Development at 84.1, suggesting that it has the greatest resilience against automation (Exhibit 15). The top five sectors with the lowest automation index in Imperial County are 1) Education and Human Development; 2) Health; 3) Life Sciences and Biotechnology; 4) ICT and Digital Media; and 5) Business and Entrepreneurship (Exhibit 15).

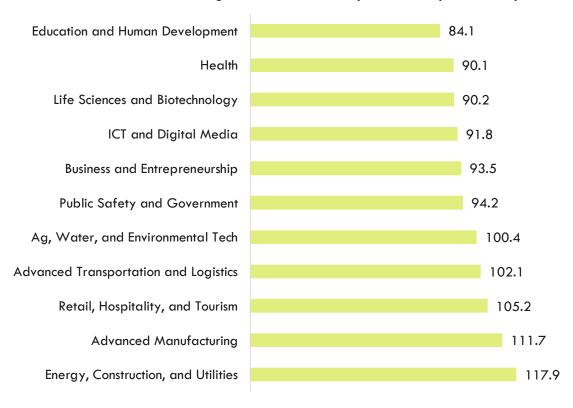


Exhibit 15: Average Automation Index by Sector in Imperial County³¹

²⁹ kb.emsidata.com/analyst/glossary/#a

³⁰ kb.emsidata.com/analyst/glossary/#a

³¹ EMSI 2021.01; QCEW, Non-QCEW, Self-Employed. Occupational groups (sectors) defined by SOC codes in Appendix C.

PART III: SECTOR RANKINGS

This section ranks the 11 sectors based on Exhibit 1 through Exhibit 15 in Part I and Part II of this study. The San Diego-Imperial COE used two different ranking methods. In the first method, the San Diego-Imperial COE identified the top five sectors in each metric or exhibit and assigned one point for each sector in the top five. Any sector not in the top five for that metric or exhibit received zero points. The second method, the San Diego-Imperial COE ranked sectors by assigning points based on the order in which they showed up in the exhibit. For example, if a sector was the top sector in an exhibit, then the San Diego-Imperial COE awarded it 11 points. If a sector was the second top sector in an exhibit, then the San Diego-Imperial COE awarded it 10 points, and so on.

Exhibit 16 and Exhibit 17 on the following pages provide illustrations of the first and second methods, respectively. In both exhibits, the 11 sectors can be identified with the following codes:

- Advanced Manufacturing (AM)
- Advanced Transportation and Logistics (ATL)
- Agriculture, Water, and Environmental Technologies (AWET)
- Business and Entrepreneurship (BE)
- Education and Human Development (EHD)
- Energy, Construction, and Utilities (ECU)

- Health (H)
- ICT and Digital Media (ICT)
- Life Sciences and Biotechnology (LS)
- Public Safety and Government (PS)
- Retail, Hospitality and Tourism (RHT)

Additionally, the total number of points for each sector are provided at the bottom of each exhibit.

Exhibit 16: Sector Rankings Based on Top 5 Sectors by Metric/Exhibit

| | Exhibit # | Metric | AM | ATL | AWET | BE | EHD | ECU | Н | ICT | LS | PS | RHT |
|---------------|-----------|---|----|-----|------|----|-----|-----|---|-----|----|----|-----|
| | 1. | # of Jobs (2020) | | | • | • | • | | | | | • | • |
| ·š | 2. | % Job Change (2010-2020) | | • | | | • | • | • | | • | | |
| Analysis | 3. | Average Earnings by Job (2020) | • | | | | | • | • | | • | • | |
| SS A | 4. | % Change in Average Earnings by Job (2010-2020) | • | • | • | | | | • | | | | • |
| Part I: NAICS | 5. | # of Establishments (2020) | | • | • | • | • | | | | | | • |
| <u></u> | 6. | % Change in Establishments (2013-2020) | | • | | • | • | • | | | • | | |
| Po | 7. | % Workers Age 55+ (2020) | | • | • | • | • | • | | | | | |
| | 8. | Jobs Multipliers (2020) | | | | | | • | | • | • | • | • |
| | 9. | # of Jobs (2020) | | • | • | • | | | • | | | | • |
| ysis | 10. | % Job Change (2010-2020) | • | • | | | | | • | • | • | | |
| Analysis | 11. | Average Entry-Level Hourly Earnings (2020) | | • | | | • | | • | • | | • | |
| SOC | 12. | Average Median Hourly Earnings (2020) | | | | • | • | | • | • | | • | |
| ; S | 13. | % of Workers 55+ (2020) | • | • | | • | • | | • | | | | |
| Part II; | 14. | Location Quotient | | • | • | | • | • | | | | • | |
| | 15. | Average Automation Index | | | | • | • | | • | • | • | | |
| | | # Points | 4 | 10 | 6 | 8 | 10 | 6 | 9 | 5 | 6 | 6 | 5 |

Exhibit 17: Sector Rankings Based on Order in Metric/Exhibit

| | Exhibit # | Metric | AM | ATL | AWET | BE | EHD | ECU | Н | ICT | LS | PS | RHT |
|---------------|-----------|---|----|-----|------|----|-----|-----|-----|-----|----|-----|-----|
| | 1. | # of Jobs (2020) | 3 | 6 | 10 | 7 | 8 | 5 | 4 | 2 | 1 | 11 | 9 |
| ·š | 2. | % Job Change (2010-2020) | 1 | 9 | 3 | 4 | 11 | 10 | 7 | 2 | 8 | 5 | 6 |
| Analysis | 3. | Average Earnings by Job (2020) | 8 | 5 | 4 | 3 | 1 | 10 | 9 | 6 | 7 | 11 | 2 |
| SS A | 4. | % Change in Average Earnings by Job (2010-2020) | 7 | 9 | 11 | 4 | 1 | 3 | 10 | 6 | 2 | 5 | 8 |
| Part I: NAICS | 5. | # of Establishments (2020) | 3 | 7 | 8 | 9 | 11 | 5 | 4 | 2 | 1 | 6 | 10 |
| ± ± | 6. | % Change in Establishments (2013-2020) | 2 | 10 | 3 | 9 | 11 | 7 | 5 | 1 | 8 | 6 | 4 |
| S. | 7. | % Workers Age 55+ (2020) | 5 | 7 | 10 | 9 | 11 | 8 | 4 | 3 | 1 | 6 | 2 |
| | 8. | Jobs Multipliers (2020) | 6 | 3 | 4 | 5 | 1 | 9 | 2 | 8 | 11 | 7 | 10 |
| | 9. | # of Jobs (2020) | 4 | 7 | 8 | 10 | 6 | 3 | 9 | 2 | 1 | 5 | 11 |
| ysis | 10. | % Job Change (2010-2020) | 8 | 7 | 3 | 6 | 4 | 5 | 10 | 9 | 11 | 1 | 2 |
| Analysis | 11. | Average Entry-Level Hourly Earnings (2020) | 1 | 7 | 2 | 6 | 9 | 4 | 11 | 8 | 5 | 10 | 3 |
| SOC | 12. | Average Median Hourly Earnings (2020) | 1 | 6 | 2 | 7 | 9 | 4 | 11 | 8 | 5 | 10 | 3 |
| <i>₩</i> | 13. | % of Workers 55+ (2020) | 7 | 11 | 6 | 10 | 8 | 5 | 9 | 3 | 4 | 1 | 2 |
| Part II: | 14. | Location Quotient | 1 | 8 | 11 | 3 | 7 | 9 | 5 | 2 | 6 | 10 | 4 |
| | 15. | Average Automation Index | 2 | 4 | 5 | 7 | 11 | 1 | 10 | 8 | 9 | 6 | 3 |
| | | # Points | 59 | 106 | 90 | 99 | 109 | 88 | 110 | 70 | 80 | 100 | 79 |

CONCLUSION

Based on Exhibit 16, the sectors are ranked as follows:

| Rank # | Sector | # Points |
|--------|---------------------------------------|----------|
| 1. | Advanced Transportation and Logistics | 10 |
| 1. | Education and Human Development | 10 |
| 2. | Health | 9 |
| 3. | Business and Entrepreneurship | 8 |
| 4. | Energy, Construction, and Utilities | 6 |
| 4. | Ag, Water, and Environmental Tech | 6 |
| 4. | Life Sciences and Biotechnology | 6 |
| 4. | Public Safety and Government | 6 |
| 5. | ICT and Digital Media | 5 |
| 5. | Retail, Hospitality, and Tourism | 5 |
| 6. | Advanced Manufacturing | 4 |

Based on Exhibit 17, the sectors are ranked as follows:

| Rank # | Sector | # Points |
|--------|---------------------------------------|----------|
| 1. | Health | 110 |
| 2. | Education and Human Development | 109 |
| 3. | Advanced Transportation and Logistics | 106 |
| 4. | Public Safety and Government | 100 |
| 5. | Business and Entrepreneurship | 99 |
| 6. | Ag, Water, and Environmental Tech | 90 |
| 7. | Energy, Construction, and Utilities | 88 |
| 8. | Life Sciences and Biotechnology | 80 |
| 9. | Retail, Hospitality, and Tourism | 79 |
| 10. | ICT and Digital Media | 70 |
| 11. | Advanced Manufacturing | 59 |

As previously mentioned, the San Diego-Imperial COE encourages the San Diego and Imperial Counties

Community Colleges to use this study as a resource for meaningful discussions as they decide on which sectors to prioritize as a region. This study should **not** be the only basis for determining the region's priority sectors.

APPENDIX A: METHODOLOGY

The San Diego-Imperial Center of Excellence for Labor Market Research (COE) analyzed regional industry sectors in this study to assist the San Diego and Imperial Counties Community Colleges with strategic planning and program development. According to the California Community Colleges Chancellor's Office (CCCCO), there are 11 key sectors in California:³²

- Advanced Manufacturing
- Advanced Transportation and Logistics
- Agriculture, Water, and Environmental Technologies
- Business and Entrepreneurship
- Education and Human Development
- Energy, Construction, and Utilities

- Health
- Retail, Hospitality, and Tourism
- Information and Communication Technologies
 (ICT) and Digital Media
- Life Sciences and Biotechnology
- Other Services
- Public Safety and Government

To analyze these sectors, the San Diego-Imperial COE first had to define what they are. Depending on the research methodology, researchers can define sectors using program codes from the Taxonomy of Programs (TOP)³³ or Classification of Instruction (CIP)³⁴ systems, occupational codes from the Standard Occupational Classification (SOC) system³⁵, or industry codes from the North American Industry Classification System (NAICS)³⁶. For this study, the San Diego-Imperial COE defined and analyzed the sectors using both NAICS and SOC codes. In other words, sectors are defined as a group of industry codes or a group of occupational codes. NAICS provides labor market information (LMI) on companies and SOC provides LMI on occupations. Put differently, NAICS codes provide a "vertical" analysis of the sectors while SOC codes provide a "horizontal" analysis as seen below.

"Vertical" Analysis of Sectors Using NAICS Codes vs. "Horizontal" Analysis Using SOC Codes

Manufacturing Companies
(NAICS 31-33)

Health Companies
(NAICS 62)

Business and Financial Occupations (SOC 13-0000)

³² cccco.edu/About-Us/Chancellors-Office/Divisions/Workforce-and-Economic-Development/Strong-Workforce-Program/Events/K12-SWP-Industry-Sector-Crosswalk. Accessed April 6, 2021.

 $^{^{33}\} cccco.edu/-/media/CCCCO-Website/About-Us/Divisions/Digital-Innovation-and-cccco.edu/-/media/CCCCO-Website/About-Us/Divisions/Digital-Innovation-and-cccco.edu/-/media/CCCCO-Website/About-Us/Divisions/Digital-Innovation-and-cccco.edu/-/media/CCCCO-Website/About-Us/Divisions/Digital-Innovation-and-cccco.edu/-/media/CCCCO-Website/About-Us/Divisions/Digital-Innovation-and-cccco.edu/-/media/CCCCO-Website/About-Us/Divisions/Digital-Innovation-and-cccco.edu/-/media/CCCCO-Website/About-Us/Divisions/Digital-Innovation-and-cccco.edu/-/media/CCCCO-Website/About-Us/Divisions/Digital-Innovation-and-cccco.edu/-/media/CCCCO-Website/About-Us/Divisions/Digital-Innovation-and-cccco.edu/-/media/CCCCO-Website/About-Us/Divisions/Digital-Innovation-and-cccco.edu/-/media/CCCCO-Website/About-Us/Divisions/Digital-Innovation-and-cccco.edu/-/media/CCCCO-Website/About-Us/Division-Abo$

Infrastructure/Research/Files/TOPmanual6200909corrected12513.pdf?la=en&hash=26CCD79E15C26BC0F48CAB37F219731E29E6CA5B

³⁴ nces.ed.gov/ipeds/cipcode/Default.aspx?y=56

³⁵ The Standard Occupational Classification (SOC) system is used by federal statistical agencies to classify workers into occupational categories for the purpose of collecting, calculating or disseminating data. bls.gov/soc.

³⁶ census.gov/naics

In the vertical view, researchers can analyze occupations in companies within **similar** industries. In the example above, all companies identified with a NAICS code between 31 and 33 are in the manufacturing industry. In the horizontal view, researchers can analyze occupations in companies across **different** industries. In the example above, SOC codes or occupations are employed across companies in different industries such as manufacturing or health. The San Diego-Imperial COE assigned 933 NAICS codes to each of the 11 sectors, including an other category for NAICS codes that did not meet the 11 sectors' descriptions below.

| Sector | Description | | |
|---|---|--------|---|
| Advanced Manufacturing | Manufacturing and Product DevelopmentManufacturing | • | Production Engineering Techs and Technologists |
| Advanced Transportation and Logistics | Transportation Transportation, Distribution & Logistics Transportation & Material Moving | | |
| Agriculture, Water, and Environmental Technologies | Agriculture and Natural Resources Agriculture, Food and Natural Resources Farming, Fishery, and Forestry | | |
| Business and Entrepreneurship | Business & Financial Operations Managers Business Management & Administration Local Small Businesses not in Retail, Hospitality, and Tourism | • | Business and Finance Global Trade Finance Management Marketing, Sales, and Service Office & Administrative Support |
| Energy, Construction, and Utilities | Building and Construction Trades Energy, Environment, and Utilities Engineering and Architecture Architecture & Construction Science, Technology, Engineering & Mathematics | • | Architecture & Engineering Construction & Extraction Installation, Maintenance & Repair Building & Grounds Cleaning Maintenance |
| Education and Human Development | Education, Child Development, & Family Se Education & Training Education, Training & Library | rvices | |
| Health Care | Health Science and Medical Technology Health Science Life, Physical Science & Social Science | • | Health Support Health Practitioners & Technical |
| Information and Communication Technologies (ICT) and Digital Media | Information and Communication Technologies Arts, A/V Technology & Communications Arts, Media, and Entertainment | • | Computer & Mathematical Science Arts, Design, Entertainment, Sports, & Media Information Technology |
| Life Sciences and Biotechnology | Health Science and Medical Technology Health Science Life, Physical Science & Social Science | • | Health Support Health Practitioners & Technical |
| Public Safety and Government | Public Services Law, Public Safety, Corrections & Security Government & Public Administration Human Services | • | Community & Social Service Legal Protective Service Military Service |
| Retail, Hospitality, and Tourism | Fashion and Interior Design Hospitality, Tourism, and Recreation Personal Care & Service | • | Hospitality & Tourism Food Preparation & Serving Sales |

NAICS codes in the other category were not included in this study's analysis. Similarly, the San Diego-Imperial COE assigned 756 SOC codes to each of the 11 sectors, with an other category as well. Working with the Employment Development Department (EDD) Labor Market Information Division (LMID), the San Diego-Imperial COE assigned one NAICS code and one SOC code to one sector, effectively, creating a one-to-one-match instead of a one-to-many match of codes to sectors. These NAICS and SOC definitions can be found in Appendix B and Appendix C, respectively.

After defining the sectors by NAICS and SOC codes, the San Diego-Imperial COE had to identify which metrics to analyze in this study. In the first quarter of 2020, regional community college stakeholders voted on the following metrics at the Workforce Development Council³⁷ and Regional Oversight Committee³⁸ meetings:

- # of Jobs (2020)
- % Job Change (2010-2020)
- Average Earnings by Job (2020)
- % Change in Average Earnings by Job (2010-2020)
- # of Establishments (2020)
- % Change in Establishments (2013-2020)

- % Workers Age 55+ (2020)
- Jobs Multipliers (2020)
- Average Entry-Level Hourly Earnings (2020)
- Average Median Hourly Earnings (2020)
- Location Quotient
- Average Automation Index

Using these metrics, the San Diego-Imperial COE analyzed available LMI between 2010 and 2020, except for one metric, % change in establishments (2013-2010). The baseline year was changed from 2010 to 2013 due to updates in coding and tracking of companies. Using 2010 as the baseline would make certain sector changes appear greater than they actually were. For this study, the San Diego-Imperial COE did not use any projections data due to the uncertainties in the labor market as a result of the COVID-19 pandemic, which began in 2020. Additionally, the San Diego-Imperial COE did not conduct any primary research for this study.

The San Diego-Imperial COE used EMSI as the primary data source for this study and relied heavily on the software program's industry and occupational tables. Definitions for each metric are provided on the following pages. The San Diego-Imperial adopted the definitions below directly from EMSI and made only minor modifications to their descriptions.³⁹

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³⁷ myworkforceconnection.org/resources/march-12-2021-workforce-development-council-meeting

 $^{^{38}}$ myworkforceconnection.org/resources/march-10-2021-regional-oversight-committee

³⁹ kb.emsidata.com/analyst/glossary

| Metric | Description |
|---|--|
| # of Jobs (2020) | Job counts (e.g., 2020 Jobs) are based on the most recent four quarters of data available from the U.S. Bureau of Labor Statistics. |
| | Data Source: U.S. Bureau of Labor Statistics Quarterly Census of Employment and Wages (QCEW) |
| % Job Change (2010-2020) | The total number of jobs changed during a period of time. The San Diego-Imperial COE compared job counts between 2010 and 2020 are compared for this metric. The percentage change indicates whether occupations in a given sector grew or declined in a specific period. |
| Average Earnings by Job (2020) | The total pre-tax industry earnings for a region divided by number of jobs in the sector or industry. Includes wages, salaries, supplements (additional employee benefits), and proprietor income. |
| | Total Earnings is one of the four components of <u>Gross Regional Product</u> (GRP). The other elements are <u>profits/property income</u> , <u>taxes on production & imports</u> , and subsidies. |
| % Change in Average Earnings by Job (2010- 2020) | The San Diego-Imperial COE compared the average earnings by job in 2010 with the average earnings by job in 2020 to determine the percentage change during that period. See "Average Earnings by Job (2020) above for the specific definition from EMSI. |
| # of Establishments (2020) | Also referred to as a "Payrolled Business Location," an establishment is a single physical location of some type of economic activity (a business), used for reporting purposes in government data sources. A single company may have multiple establishments. |
| | As an example, a single company with its corporate office in New York, a paper manufacturing plant in Georgia, and fifteen warehouses in various cities would comprise a total of seventeen establishments, and each establishment would be classified according to its own type of activity. In this case, three different industries would be used: |
| | Corporate, subsidiary, and regional managing offices |
| | Paper (except newsprint) mills General warehousing and storage |
| | Data source: U.S. Bureau of Labor Statistics Quarterly Census of Employment and Wages (QCEW) |
| % Change in Establishments (2013-2020) | The San Diego-Imperial COE reviewed the number of establishments in Imperial County for each sector between 2010 and 2020 and found that between 2010 and 2012, the numbers shifted significantly due to changes in coding and reporting. As a result, the San Diego-Imperial COE used 2013 as the baseline year to compare the percentage change or increase in establishments in Imperial County for a given sector. See "# of Establishments (2020) above for the definition of an "establishment." |
| % Workers Age 55+ (2020) | A demographic breakdown, by age, of individuals working in an occupation or industry. A common workforce challenge is replacing workers with years of experience who are soon to retire. Therefore, the San Diego-Imperial COE analyzed the percentage of workers in a given sector with workers ages 55 or older to determine which sectors had a large proportion of workers nearing retirement. |
| | Data source: Industry Demographics, staffing patterns, and <u>American Community Survey</u> . For industries, EMSI's proprietary employment data, incorporating <u>Census' Quarterly Workforce Indicators</u> and <u>American Community Survey</u> . |
| Jobs Multipliers (2020) | A jobs multiplier indicates how important an industry is in regional job creation. The total job yield to the region as a result of — and including — a single job added. A jobs multiplier of 3, for example, would mean that for every job created by that industry, 2 other jobs would be created in other industries (for a total of 3 jobs). |

Jobs multipliers are easily misinterpreted—jobs multipliers of 17 or higher are sometimes seen—but a high jobs multiplier for a set of one or more industries in an added-jobs scenario does not necessarily mean that attracting businesses in those industries to the region is the best of most viable option for regional economic growth.

Jobs multipliers are primarily tied to the type of industries in the scenario–industries with a high sales/labor ratio typically have a high jobs multiplier, and vice versa. For example, a nuclear power plant might have only 20 workers, but "behind" each of those workers there are millions of dollars of equipment costs and millions of dollars of electricity being generated. Thus, if we bring 20 more nuclear power jobs into the region, it will involve a huge amount of investment flooding into the region (to build another nuclear power plant or double the size of the current one) and millions of dollars in new sales and profits.

Metric

Description

Jobs Multipliers (continued from above) Some of that money would go to the employees' high salaries, some would go to local construction companies, real estate, janitorial services, etc. The overall jobs multiplier would be impressive—each new job in nuclear power might support 14 other jobs scattered throughout the rest of the economy (i.e., a jobs multiplier of 15). However, the effort it takes to attract 20 jobs in nuclear power (with all the necessary infrastructure) is substantially more than to attract 20 jobs in an industry with a lower jobs multiplier.

EMSI does not provide job multipliers by industry (NAICS) groups. Therefore, the San Diego-Imperial COE selected all NAICS codes that defined a sector and generated an "Industry Overview" report in EMSI, which produced a jobs multiplier number.

Data source: Emsi's model, incorporating data from the Bureau of Economic Analysis (BEA).

Average Entry-Level Hourly Earnings (2020)

Average Median Hourly Earnings (2020) Earnings data is collected from the employer's perspective, meaning earnings data is pre-tax (individual employees' tax withholdings will vary, so earnings are reported pre-tax). Because it is collected from the employer's perspective, earnings data is also counted by the place of the employee's work, not the employee's residence. Occupations have average hourly earnings as well as percentile earnings for five percentiles (10th, 25th, 50th (median), 75th, and 90th).

Percentile earnings indicate what percent of the jobs in the occupation earn that amount or less. For example, 10th percentile earnings of \$12/hour indicate that 10% of the workers in that occupation make \$12/hour or less. Median earnings of \$15/hour would mean that half of workers in that occupation make more than \$15/hour, and half make less than \$15/hour 10th percentile earnings are often used as a proxy for entry level wages, as they represent some of the lowest earnings in the occupation.

25th percentile earnings are used for determining wages in entry-level positions for job seekers who have a community college education because they have some training and experience compared to those in the 10th percentile.

Earnings are reported in terms of hourly income rather than annual income for all but a handful of occupations. For occupations with earnings reported annually, the annual earnings are divided by 2080 (number of hours in a working year) to determine hourly earnings.

Occupation earnings include reported base rate, commissions, cost of living allowances, deadheading pay, guaranteed pay, hazard pay, Incentive pay, longevity pay, over-the-road pay, piece rates, portal-to-portal rates, production bonuses, and tips.

Occupation earnings do not include attendance bonuses, back pay, clothing, allowances, discount, draw, holiday bonus, holiday premium pay, jury duty pay, meal and lodging payments, merchandise discounts, non-production bonuses, on-call pay, overtime pay, perquisites, profit-sharing payments, relocation allowances, severance pay, shift differentials, stock bonuses, tool/equipment allowances, tuition repayment, uniform allowance, weekend premium pay, or year-end bonuses.

Data source: U.S. Bureau of Labor Statistics Occupational Employment Statistics (OES) data set

Location Quotient

Another term for job concentration is Location Quotient (LQ). Location quotient (LQ) is a way of quantifying how concentrated a particular industry, cluster, occupation, or demographic group is in a region as compared to the nation. It can reveal what makes a particular region "unique." For example, if the leather products manufacturing industry accounts for 10% of jobs in your area but 1% of jobs nationally, then the area's leather-producing industry has an LQ of 10. So, in your area, leather manufacturing accounts for a larger than average "share" of total jobs—the share is ten times larger than normal.

LQ is calculated by comparing an industry's or an occupation's share of regional employment with its share of national employment. Industries with a high LQ are typically (but not always) export industries, which are important because they bring money into the region, rather than circulating local dollars around the economy (which is more typical for retail or restaurants).

Occupations with a high LQ are important because they are generally employed by high-LQ industries and thus provide a workforce-oriented perspective of the region's economic base. Such occupations are vital for the continued prosperity of the region.

When considering an industry's LQ, you need to also take into account the number of jobs and percent change. A high LQ signals high concentration, but the concentration's impact on the regional economy depends on the number of jobs actually present in the economy. A positive or negative change in an industry's LQ will be much more indicative of the economy's health if the industry also employs a lot of people.

Metric Description

Average Automation Index

The automation index captures an occupation's risk of being affected by automation using four measures:

- % of time spent on high-risk work
- % of time spent on low-risk work
- Number of high-risk jobs in compatible occupations
- Overall industry automation risk

This methodology starts with the underlying work on task content. EMSI used estimated task time shares, derived from O*NET work activities, and regressed them for each occupation based on Frey and Osborne's published "computerization probabilities" (2013). This helps identify which tasks are positively and negatively correlated with automation risk.

This classification is then linked with the task time shares to identify the share of each occupation's time spent in high- and low-risk work, from an automation perspective.

Then EMSI reviewed the place of an occupation in the broader context of labor market automation risk. Using occupation compatibility scores, EMSI reviewed all similar roles (defined as having an O*NET compatibility score over 75) and found the percentage of jobs in those similar roles that are at risk of automation.

Finally, using staffing pattern data, EMSI multiplied the share of an occupation's jobs in 3-digit NAICS industries by that industry's share of at-risk jobs to calculate the overall industry automation risk.

EMSI then standardized all these measures and scaled the index so that 100 = the "average worker," defined as the average index across all occupations, weighted by job numbers in 2018. The index has a standard deviation of 15. Note that the share of time spent on low-risk work is a negative contributor to an occupation's index score (making the index score lower) while the other three measures are positive contributors (making the index score higher).

Note: Automation index is unavailable for Legislators, Military, and Unclassified occupations, so they are excluded from aggregate indexes for higher-level occupations.

APPENDIX B: SECTOR DEFINITIONS BY NAICS CODES

ADVANCED MANUFACTURING

| NIAICS C. I | NAICC Tol |
|-------------|--|
| NAICS Code | NAICS Title |
| 311111 | Dog and Cat Food Manufacturing |
| 311119 | Other Animal Food Manufacturing |
| 311211 | Flour Milling |
| 311212 | Rice Milling |
| 311213 | Malt Manufacturing |
| 311225 | Fats and Oils Refining and Blending |
| 311230 | Breakfast Cereal Manufacturing |
| 311313 | Beet Sugar Manufacturing |
| 311314 | Cane Sugar Manufacturing |
| 311340 | Nonchocolate Confectionery Manufacturing |
| 311351 | Chocolate and Confectionery Manufacturing from Cacao Beans |
| 311352 | Confectionery Manufacturing from Purchased Chocolate |
| 311411 | Frozen Fruit, Juice, and Vegetable Manufacturing |
| 311412 | Frozen Specialty Food Manufacturing |
| 311421 | Fruit and Vegetable Canning |
| 311422 | Specialty Canning |
| 311423 | Dried and Dehydrated Food Manufacturing |
| 311511 | Fluid Milk Manufacturing |
| 311512 | Creamery Butter Manufacturing |
| 311513 | Cheese Manufacturing |
| 311514 | Dry, Condensed, and Evaporated Dairy Product Manufacturing |
| 311520 | Ice Cream and Frozen Dessert Manufacturing |
| 311611 | Animal (except Poultry) Slaughtering |
| 311612 | Meat Processed from Carcasses |
| 311613 | Rendering and Meat Byproduct Processing |
| 311615 | Poultry Processing |
| 311710 | Seafood Product Preparation and Packaging |
| 311811 | Retail Bakeries |
| 311812 | Commercial Bakeries |
| 311813 | Frozen Cakes, Pies, and Other Pastries Manufacturing |
| 311821 | Cookie and Cracker Manufacturing |
| 311824 | Dry Pasta, Dough, and Flour Mixes Manufacturing from Purchased Flour |
| 311830 | Tortilla Manufacturing |
| 311911 | Roasted Nuts and Peanut Butter Manufacturing |
| 311919 | Other Snack Food Manufacturing |
| 311920 | Coffee and Tea Manufacturing |
| 311930 | Flavoring Syrup and Concentrate Manufacturing |
| 311941 | Mayonnaise, Dressing, and Other Prepared Sauce Manufacturing |
| 311942 | Spice and Extract Manufacturing |
| 311991 | Perishable Prepared Food Manufacturing |
| 311999 | All Other Miscellaneous Food Manufacturing |
| 312111 | Soft Drink Manufacturing |
| 312112 | Bottled Water Manufacturing |
| 312113 | Ice Manufacturing |
| 312120 | Breweries |
| 312130 | Wineries |
| 312140 | Distilleries |
| 312230 | Tobacco Manufacturing |
| 313110 | Fiber, Yarn, and Thread Mills |
| 313210 | Broadwoven Fabric Mills |
| 313220 | Narrow Fabric Mills and Schiffli Machine Embroidery |
| | - / |

| NAICS Code | NAICS Title | Advanced Manufacturing |
|------------------|---|------------------------|
| 313230 | Nonwoven Fabric Mills | |
| 313240 | Knit Fabric Mills | |
| 313310 | Textile and Fabric Finishing Mills | |
| 313320 | Fabric Coating Mills | |
| 314110 | Carpet and Rug Mills | |
| 314120 | Curtain and Linen Mills | |
| 314910 | Textile Bag and Canvas Mills | |
| 314994 | Rope, Cordage, Twine, Tire Cord, and Tire Fabric Mills | |
| 314999 | All Other Miscellaneous Textile Product Mills | |
| 315110 | Hosiery and Sock Mills | |
| 315190 | Other Apparel Knitting Mills | |
| 315210 | Cut and Sew Apparel Contractors | |
| 315220 | Men's and Boys' Cut and Sew Apparel Manufacturing | |
| 315240 | Women's, Girls', and Infants' Cut and Sew Apparel Manufacturing | |
| 315280 | Other Cut and Sew Apparel Manufacturing | |
| 315990 | Apparel Accessories and Other Apparel Manufacturing | |
| 316110 | Leather and Hide Tanning and Finishing | |
| 316210 | Footwear Manufacturing | |
| 316992 | Women's Handbag and Purse Manufacturing | |
| 316998 | All Other Leather Good and Allied Product Manufacturing | |
| 321113 | Sawmills | |
| 321113 | Wood Preservation | |
| 321211 | Hardwood Veneer and Plywood Manufacturing | |
| 321211 | Softwood Veneer and Plywood Manufacturing | |
| 321212 | Engineered Wood Member (except Truss) Manufacturing | |
| 321213 | Truss Manufacturing | |
| 321214 | · | |
| 321219 | Reconstituted Wood Product Manufacturing Wood Window and Door Manufacturing | |
| 321911 | <u> </u> | |
| 321912 | Cut Stock, Resawing Lumber, and Planing Other Millwork (including Flooring) | |
| 321920 | Wood Container and Pallet Manufacturing | |
| | · | |
| 321991 321992 | Manufactured Home (Mobile Home) Manufacturing Prefabricated Wood Building Manufacturing | |
| | <u> </u> | |
| 321999 | All Other Miscellaneous Wood Product Manufacturing | |
| 322110 | Pulp Mills | |
| 322121 | Paper (except Newsprint) Mills | |
| 322122 | Newsprint Mills | |
| 322130 | Paperboard Mills | |
| 322211 | Corrugated and Solid Fiber Box Manufacturing | |
| 322212 | Folding Paperboard Box Manufacturing | |
| 322219 | Other Paperboard Container Manufacturing | |
| 322220 | Paper Bag and Coated and Treated Paper Manufacturing | |
| 322230 | Stationery Product Manufacturing | |
| 322291 | Sanitary Paper Product Manufacturing | |
| 322299 | All Other Converted Paper Product Manufacturing | |
| 323111 | Commercial Printing (except Screen and Books) | |
| 323113 | Commercial Screen Printing | |
| 323117 | Books Printing | |
| 323120 | Support Activities for Printing | |
| 324110 | Petroleum Refineries | |
| 324121 | Asphalt Paving Mixture and Block Manufacturing | |
| 324122 | Asphalt Shingle and Coating Materials Manufacturing | |
| 324191 | Petroleum Lubricating Oil and Grease Manufacturing | |
| 324199 | All Other Petroleum and Coal Products Manufacturing | |
| 325110 | Petrochemical Manufacturing | |
| 325120 | Industrial Gas Manufacturing | |
| 325130 | Synthetic Dye and Pigment Manufacturing | |
| | | |

| NAICS Code | NAICS Title | Advanced Manufacturing |
|------------------|--|------------------------|
| 325180 | Other Basic Inorganic Chemical Manufacturing | |
| 325194 | Cyclic Crude, Intermediate, and Gum and Wood Chemical Manufacturing | a |
| 325199 | All Other Basic Organic Chemical Manufacturing | |
| 325211 | Plastics Material and Resin Manufacturina | |
| 325212 | Synthetic Rubber Manufacturing | |
| 325510 | Paint and Coating Manufacturing | |
| 325520 | Adhesive Manufacturing | |
| 325611 | Soap and Other Detergent Manufacturing | |
| 325612 | Polish and Other Sanitation Good Manufacturing | |
| 325613 | Surface Active Agent Manufacturing | |
| 325620 | Toilet Preparation Manufacturing | |
| 325910 | Printing Ink Manufacturing | |
| 325920 | Explosives Manufacturing | |
| 325991 | Custom Compounding of Purchased Resins | |
| 325992 | Photographic Film, Paper, Plate, and Chemical Manufacturing | |
| 325998 | All Other Miscellaneous Chemical Product and Preparation Manufacturing | |
| 326111 | Plastics Bag and Pouch Manufacturing | 9 |
| 326112 | Plastics Packaging Film and Sheet (including Laminated) Manufacturing | |
| 326113 | Unlaminated Plastics Film and Sheet (except Packaging) Manufacturing | |
| 326121 | Unlaminated Plastics Profile Shape Manufacturing | |
| 326121 | Plastics Pipe and Pipe Fitting Manufacturing | |
| 326130 | Laminated Plastics Plate, Sheet (except Packaging), and Shape Manufac | turing |
| 326140 | Polystyrene Foam Product Manufacturing | iornig |
| 326150 | Urethane and Other Foam Product (except Polystyrene) Manufacturing | |
| 326160 | Plastics Bottle Manufacturing | |
| 326191 | Plastics Plumbing Fixture Manufacturing | |
| 326199 | All Other Plastics Product Manufacturing | |
| 326211 | · · · · · · · · · · · · · · · · · · · | |
| 326211 | Tire Manufacturing (except Retreading) | |
| 326220 | Tire Retreading | |
| 326291 | Rubber and Plastics Hoses and Belting Manufacturing | |
| | Rubber Product Manufacturing for Mechanical Use | |
| 326299 | All Other Rubber Product Manufacturing Pottery, Ceramics, and Plumbing Fixture Manufacturing | |
| 327110 327120 | | |
| 327120 | Clay Building Material and Refractories Manufacturing | |
| | Flat Glass Manufacturing | |
| 327212 327213 | Other Pressed and Blown Glass and Glassware Manufacturing | |
| | Glass Container Manufacturing | |
| 327215 | Glass Product Manufacturing Made of Purchased Glass | |
| 327310 | Cement Manufacturing | |
| 327320 | Ready-Mix Concrete Manufacturing | |
| 327331 | Concrete Block and Brick Manufacturing | |
| 327332 | Concrete Pipe Manufacturing | |
| 327390 | Other Concrete Product Manufacturing | |
| 327410 | Lime Manufacturing | |
| 327420 | Gypsum Product Manufacturing | |
| 327910 | Abrasive Product Manufacturing | |
| 327991 | Cut Stone and Stone Product Manufacturing | |
| 327992 | Ground or Treated Mineral and Earth Manufacturing | |
| 327993 | Mineral Wool Manufacturing | |
| 327999 | All Other Miscellaneous Nonmetallic Mineral Product Manufacturing | |
| 331110 | Iron and Steel Mills and Ferroalloy Manufacturing | |
| 331210 | Iron and Steel Pipe and Tube Manufacturing from Purchased Steel | |
| 331221 | Rolled Steel Shape Manufacturing | |
| 331222 | Steel Wire Drawing | |
| 331313 | Alumina Refining and Primary Aluminum Production | |
| 331314 | Secondary Smelting and Alloying of Aluminum | |
| 331315 | Aluminum Sheet, Plate, and Foil Manufacturing | |

| NAICS Code | NAICS Title Advanced Manufacturing |
|------------|--|
| 331318 | Other Aluminum Rolling, Drawing, and Extruding |
| 331410 | Nonferrous Metal (except Aluminum) Smelting and Refining |
| 331420 | Copper Rolling, Drawing, Extruding, and Alloying |
| 331491 | Nonferrous Metal (except Copper and Aluminum) Rolling, Drawing, and Extruding |
| 331492 | Secondary Smelting, Refining, and Alloying of Nonferrous Metal (except Copper and Aluminum) |
| 331511 | Iron Foundries |
| 331512 | Steel Investment Foundries |
| 331513 | Steel Foundries (except Investment) |
| 331523 | Nonferrous Metal Die-Casting Foundries |
| 331524 | Aluminum Foundries (except Die-Casting) |
| 331529 | Other Nonferrous Metal Foundries (except Die-Casting) |
| 332111 | Iron and Steel Forging |
| 332112 | Nonferrous Forging |
| 332114 | Custom Roll Forming |
| 332117 | Powder Metallurgy Part Manufacturing |
| 332119 | Metal Crown, Closure, and Other Metal Stamping (except Automotive) |
| 332215 | Metal Kitchen Cookware, Utensil, Cutlery, and Flatware (except Precious) Manufacturing |
| 332216 | Saw Blade and Handtool Manufacturing |
| 332311 | Prefabricated Metal Building and Component Manufacturing |
| 332312 | Fabricated Structural Metal Manufacturing |
| 332313 | Plate Work Manufacturing |
| 332321 | Metal Window and Door Manufacturing |
| 332322 | Sheet Metal Work Manufacturing |
| 332323 | Ornamental and Architectural Metal Work Manufacturing |
| 332410 | Power Boiler and Heat Exchanger Manufacturing |
| 332420 | Metal Tank (Heavy Gauge) Manufacturing |
| 332431 | Metal Can Manufacturing |
| 332439 | Other Metal Container Manufacturing |
| 332510 | Hardware Manufacturing |
| 332613 | Spring Manufacturing |
| 332618 | Other Fabricated Wire Product Manufacturing |
| 332710 | Machine Shops |
| 332721 | Precision Turned Product Manufacturing |
| 332721 | Bolt, Nut, Screw, Rivet, and Washer Manufacturing |
| 332811 | Metal Heat Treating |
| 332812 | · |
| 332813 | Metal Coating, Engraving (except Jewelry and Silverware), and Allied Services to Manufacturers Electroplating, Plating, Polishing, Anodizing, and Coloring |
| 332911 | |
| | Industrial Valve Manufacturing |
| 332912 | Fluid Power Valve and Hose Fitting Manufacturing |
| 332913 | Plumbing Fixture Fitting and Trim Manufacturing |
| 332919 | Other Metal Valve and Pipe Fitting Manufacturing |
| 332991 | Ball and Roller Bearing Manufacturing |
| 332992 | Small Arms Ammunition Manufacturing |
| 332993 | Ammunition (except Small Arms) Manufacturing |
| 332994 | Small Arms, Ordnance, and Ordnance Accessories Manufacturing |
| 332996 | Fabricated Pipe and Pipe Fitting Manufacturing |
| 332999 | All Other Miscellaneous Fabricated Metal Product Manufacturing |
| 333111 | Farm Machinery and Equipment Manufacturing |
| 333112 | Lawn and Garden Tractor and Home Lawn and Garden Equipment Manufacturing |
| 333120 | Construction Machinery Manufacturing |
| 333131 | Mining Machinery and Equipment Manufacturing |
| 333132 | Oil and Gas Field Machinery and Equipment Manufacturing |
| 333241 | For all Duranturat Administrators Administration for attentions |
| | Food Product Machinery Manufacturing |
| 333242 | Semiconductor Machinery Manufacturing |
| | |
| 333242 | Semiconductor Machinery Manufacturing |

| NAICS Code | NAICS Title Advanced Manufacturing |
|------------|--|
| 333316 | Photographic and Photocopying Equipment Manufacturing |
| 333318 | Other Commercial and Service Industry Machinery Manufacturing |
| 333413 | Industrial and Commercial Fan and Blower and Air Purification Equipment Manufacturing |
| 333414 | Heating Equipment (except Warm Air Furnaces) Manufacturing |
| 333415 | Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration |
| 000410 | Equipment Manufacturing |
| 333511 | Industrial Mold Manufacturing |
| 333514 | Special Die and Tool, Die Set, Jig, and Fixture Manufacturing |
| 333515 | Cutting Tool and Machine Tool Accessory Manufacturing |
| 333517 | Machine Tool Manufacturing |
| 333519 | Rolling Mill and Other Metalworking Machinery Manufacturing |
| 333611 | Turbine and Turbine Generator Set Units Manufacturing |
| 333612 | Speed Changer, Industrial High-Speed Drive, and Gear Manufacturing |
| 333613 | Mechanical Power Transmission Equipment Manufacturing |
| 333618 | Other Engine Equipment Manufacturing |
| 333912 | Air and Gas Compressor Manufacturing |
| 333914 | Measuring, Dispensing, and Other Pumping Equipment Manufacturing |
| 333921 | Elevator and Moving Stairway Manufacturing |
| 333922 | Conveyor and Conveying Equipment Manufacturing |
| 333923 | Overhead Traveling Crane, Hoist, and Monorail System Manufacturing |
| 333924 | Industrial Truck, Tractor, Trailer, and Stacker Machinery Manufacturing |
| 333991 | Power-Driven Handtool Manufacturing |
| 333992 | Welding and Soldering Equipment Manufacturing |
| 333993 | Packaging Machinery Manufacturing |
| 333994 | Industrial Process Furnace and Oven Manufacturing |
| 333995 | Fluid Power Cylinder and Actuator Manufacturing |
| 333996 | Fluid Power Pump and Motor Manufacturing |
| 333997 | Scale and Balance Manufacturing |
| 333999 | All Other Miscellaneous General Purpose Machinery Manufacturing |
| 334111 | Electronic Computer Manufacturing |
| 334112 | Computer Storage Device Manufacturing |
| 334118 | Computer Terminal and Other Computer Peripheral Equipment Manufacturing |
| 334210 | Telephone Apparatus Manufacturing |
| 334290 | Other Communications Equipment Manufacturing |
| 334310 | Audio and Video Equipment Manufacturing |
| 334412 | Bare Printed Circuit Board Manufacturing |
| 334413 | Semiconductor and Related Device Manufacturing |
| 334416 | Capacitor, Resistor, Coil, Transformer, and Other Inductor Manufacturing |
| 334417 | Electronic Connector Manufacturing |
| 334418 | Printed Circuit Assembly (Electronic Assembly) Manufacturing |
| 334419 | Other Electronic Component Manufacturing |
| | Search, Detection, Navigation, Guidance, Aeronautical, and Nautical System and Instrument |
| 334511 | Manufacturing |
| 334512 | Automatic Environmental Control Manufacturing for Residential, Commercial, and Appliance Use |
| | Instruments and Related Products Manufacturing for Measuring, Displaying, and Controlling |
| 334513 | Industrial Process Variables |
| 334514 | Totalizing Fluid Meter and Counting Device Manufacturing |
| 334515 | Instrument Manufacturing for Measuring and Testing Electricity and Electrical Signals |
| 334519 | Other Measuring and Controlling Device Manufacturing |
| 334613 | Blank Magnetic and Optical Recording Media Manufacturing |
| | |
| 334614 | Software and Other Prerecorded Compact Disc, Tape, and Record Reproducing |
| 335110 | Electric Lamp Bulb and Part Manufacturing |
| 335121 | Residential Electric Lighting Fixture Manufacturing |
| 335122 | Commercial, Industrial, and Institutional Electric Lighting Fixture Manufacturing |
| 335129 | Other Lighting Equipment Manufacturing |
| 335210 | Small Electrical Appliance Manufacturing |
| 335220 | Major Household Appliance Manufacturing |

| NAICS Code | NAICS Title Advanced Manufacturing |
|------------------|--|
| 335311 | Power, Distribution, and Specialty Transformer Manufacturing |
| 335312 | Motor and Generator Manufacturing |
| 335313 | Switchgear and Switchboard Apparatus Manufacturing |
| 335314 | Relay and Industrial Control Manufacturing |
| 335911 | Storage Battery Manufacturing |
| 335912 | Primary Battery Manufacturing |
| 335921 | Fiber Optic Cable Manufacturing |
| 335929 | Other Communication and Energy Wire Manufacturing |
| 335931 | Current-Carrying Wiring Device Manufacturing |
| 335932 | Noncurrent-Carrying Wiring Device Manufacturing |
| 335991 | Carbon and Graphite Product Manufacturing |
| 335999 | All Other Miscellaneous Electrical Equipment and Component Manufacturing |
| 336111 | Automobile Manufacturing |
| 336112 | Light Truck and Utility Vehicle Manufacturing |
| 336120 | Heavy Duty Truck Manufacturing |
| 336211 | Motor Vehicle Body Manufacturing |
| 336212 | Truck Trailer Manufacturing |
| 336213 | Motor Home Manufacturing |
| 336214 | Travel Trailer and Camper Manufacturing |
| 336310 | Motor Vehicle Gasoline Engine and Engine Parts Manufacturing |
| 336320 | Motor Vehicle Electrical and Electronic Equipment Manufacturing |
| 336330 | Motor Vehicle Steering and Suspension Components (except Spring) Manufacturing |
| 336340 | Motor Vehicle Brake System Manufacturing |
| 336350 | Motor Vehicle Transmission and Power Train Parts Manufacturing |
| 336360 | Motor Vehicle Seating and Interior Trim Manufacturing |
| 336370 | Motor Vehicle Metal Stamping |
| 336390 | Other Motor Vehicle Parts Manufacturing |
| 336411 | Aircraft Manufacturing |
| 336412 | Aircraft Engine and Engine Parts Manufacturing |
| 336413 | Other Aircraft Parts and Auxiliary Equipment Manufacturing |
| 336414 | Guided Missile and Space Vehicle Manufacturing |
| 336415 | Guided Missile and Space Vehicle Propulsion Unit and Propulsion Unit Parts Manufacturing |
| 336419 | Other Guided Missile and Space Vehicle Parts and Auxiliary Equipment Manufacturing |
| 336510 | Railroad Rolling Stock Manufacturing |
| 336611 | Ship Building and Repairing |
| 336612 | Boat Building |
| 336991 | <u> </u> |
| | Motorcycle, Bicycle, and Parts Manufacturing |
| 336992 336999 | Military Armored Vehicle, Tank, and Tank Component Manufacturing |
| | All Other Transportation Equipment Manufacturing |
| 337110 | Wood Kitchen Cabinet and Countertop Manufacturing |
| 337121 | Upholstered Household Furniture Manufacturing |
| 337122 | Nonupholstered Wood Household Furniture Manufacturing |
| 337124 | Metal Household Furniture Manufacturing |
| 337125 | Household Furniture (except Wood and Metal) Manufacturing |
| 337127 | Institutional Furniture Manufacturing |
| 337211 | Wood Office Furniture Manufacturing |
| 337212 | Custom Architectural Woodwork and Millwork Manufacturing |
| 337214 | Office Furniture (except Wood) Manufacturing |
| 337215 | Showcase, Partition, Shelving, and Locker Manufacturing |
| 337910 | Mattress Manufacturing |
| 337920 | Blind and Shade Manufacturing |
| 339910 | Jewelry and Silverware Manufacturing |
| 339920 | Sporting and Athletic Goods Manufacturing |
| 339930 | Doll, Toy, and Game Manufacturing |
| 339940 | Office Supplies (except Paper) Manufacturing |
| 339950 | Sign Manufacturing |
| 339991 | Gasket, Packing, and Sealing Device Manufacturing |
| | |

| NAICS Code | NAICS Title Advanced Manufac | turing |
|------------|---|--------|
| 339992 | Musical Instrument Manufacturing | |
| 339993 | Fastener, Button, Needle, and Pin Manufacturing | |
| 339994 | Broom, Brush, and Mop Manufacturing | |
| 339995 | Burial Casket Manufacturing | |
| 339999 | All Other Miscellaneous Manufacturing | |
| 811310 | Commercial and Industrial Machinery and Equipment (except Automotive and Electronic) Repair | and |
| | Maintenance | |

ADVANCED TRANSPORTATION AND LOGISTICS

| NAICS Code | NAICS Title |
|------------|---|
| 423830 | Industrial Machinery and Equipment Merchant Wholesalers |
| 441110 | New Car Dealers |
| 441120 | Used Car Dealers |
| 441210 | Recreational Vehicle Dealers |
| 441222 | Boat Dealers |
| 441228 | Motorcycle, ATV, and All Other Motor Vehicle Dealers |
| 441310 | Automotive Parts and Accessories Stores |
| 441320 | Tire Dealers |
| 481111 | Scheduled Passenger Air Transportation |
| 481112 | Scheduled Freight Air Transportation |
| 481211 | Nonscheduled Chartered Passenger Air Transportation |
| 481212 | Nonscheduled Chartered Freight Air Transportation |
| 481219 | Other Nonscheduled Air Transportation |
| 484110 | General Freight Trucking, Local |
| 484121 | General Freight Trucking, Long-Distance, Truckload |
| 484122 | General Freight Trucking, Long-Distance, Less Than Truckload |
| 484220 | Specialized Freight (except Used Goods) Trucking, Local |
| 484230 | Specialized Freight (except Used Goods) Trucking, Long-Distance |
| 485111 | Mixed Mode Transit Systems |
| 485112 | Commuter Rail Systems |
| 485113 | Bus and Other Motor Vehicle Transit Systems |
| 485119 | Other Urban Transit Systems |
| 483211 | Inland Water Freight Transportation |
| 483212 | Inland Water Passenger Transportation |
| 485210 | Interurban and Rural Bus Transportation |
| 485410 | School and Employee Bus Transportation |
| 485510 | Charter Bus Industry |
| 485999 | All Other Transit and Ground Passenger Transportation |
| 488119 | Other Airport Operations |
| 488190 | Other Support Activities for Air Transportation |
| 488210 | Support Activities for Rail Transportation |
| 488310 | Port and Harbor Operations |
| 488490 | Other Support Activities for Road Transportation |
| 488510 | Freight Transportation Arrangement |
| 488999 | All Other Support Activities for Transportation |
| 491110 | Postal Service |
| 492110 | Couriers and Express Delivery Services |
| 492210 | Local Messengers and Local Delivery |
| 493110 | General Warehousing and Storage |
| 493120 | Refrigerated Warehousing and Storage |
| 493130 | Farm Product Warehousing and Storage |
| 493190 | Other Warehousing and Storage |
| 541614 | Process, Physical Distribution, and Logistics Consulting Services |
| 811111 | General Automotive Repair |
| 811112 | Automotive Exhaust System Repair |

| NAICS Code | NAICS Title Advanced Transportation and Logistics |
|------------|---|
| 811113 | Automotive Transmission Repair |
| 811118 | Other Automotive Mechanical and Electrical Repair and Maintenance |
| 811121 | Automotive Body, Paint, and Interior Repair and Maintenance |
| 811191 | Automotive Oil Change and Lubrication Shops |
| 811198 | All Other Automotive Repair and Maintenance |
| 482110 | Rail transportation |
| 483111 | Deep Sea Freight Transportation |
| 483112 | Deep Sea Passenger Transportation |
| 483113 | Coastal and Great Lakes Freight Transportation |
| 483114 | Coastal and Great Lakes Passenger Transportation |
| 484210 | Used Household and Office Goods Moving |
| 811122 | Automotive Glass Replacement Shops |
| 485991 | Special Needs Transportation |
| 486110 | Pipeline Transportation of Crude Oil |
| 486210 | Pipeline Transportation of Natural Gas |
| 486910 | Pipeline Transportation of Refined Petroleum Products |
| 486990 | All Other Pipeline Transportation |
| 487110 | Scenic and Sightseeing Transportation, Land |
| 487210 | Scenic and Sightseeing Transportation, Water |
| 487990 | Scenic and Sightseeing Transportation, Other |
| 488111 | Air Traffic Control |
| 488320 | Marine Cargo Handling |
| 488330 | Navigational Services to Shipping |
| 488390 | Other Support Activities for Water Transportation |
| 488410 | Motor Vehicle Towing |
| 488991 | Packing and Crating |

AGRICULTURE, WATER, AND ENVIRONMENTAL TECHNOLOGIES

| NAICS Code NAICS Title | |
|---|-------------------------|
| | |
| 111000 Crop Production | |
| 112000 Animal Production | |
| 115111 Cotton Ginning | |
| 115112 Soil Preparation, Planting, and Cultivating | |
| 115113 Crop Harvesting, Primarily by Machine | |
| 115114 Postharvest Crop Activities (except Cotton C | Ginning) |
| 115115 Farm Labor Contractors and Crew Leaders | |
| 115116 Farm Management Services | |
| 115210 Support Activities for Animal Production | |
| 115310 Support Activities for Forestry | |
| 221310 Water Supply and Irrigation Systems | |
| 423820 Farm and Garden Machinery and Equipmen | nt Merchant Wholesalers |
| 424430 Dairy Product (except Dried or Canned) Me | erchant Wholesalers |
| 424440 Poultry and Poultry Product Merchant Whol | esalers |
| 424460 Fish and Seafood Merchant Wholesalers | |
| 424470 Meat and Meat Product Merchant Wholesa | lers |
| 424510 Grain and Field Bean Merchant Wholesale | rs . |
| 424520 Livestock Merchant Wholesalers | |
| 424590 Other Farm Product Raw Material Merchan | t Wholesalers |
| 424910 Farm Supplies Merchant Wholesalers | |
| 445230 Fruit and Vegetable Markets | |
| 541620 Environmental Consulting Services | |
| 541940 Veterinary Services | |
| 561710 Exterminating and Pest Control Services | |
| 562211 Hazardous Waste Treatment and Disposal | |

| NAICS Code | NAICS Title Ag | griculture, Water, and Environmental Technologies |
|------------|---|---|
| 445230 | Fruit and Vegetable Markets | |
| 541620 | Environmental Consulting Services | |
| 541940 | Veterinary Services | |
| 561710 | Exterminating and Pest Control Services | |
| 562211 | Hazardous Waste Treatment and Disposal | |
| 562910 | Remediation Services | |
| 113110 | Timber Tract Operations | |
| 113210 | Forest Nurseries and Gathering of Forest Products | |
| 113310 | Logging | |
| 114111 | Finfish Fishing | |
| 114112 | Shellfish Fishing | |
| 114119 | Other Marine Fishing | |
| 114210 | Hunting and Trapping | |
| 562111 | Solid Waste Collection | |
| 562112 | Hazardous Waste Collection | |
| 562119 | Other Waste Collection | |
| 562212 | Solid Waste Landfill | |
| 562213 | Solid Waste Combustors and Incinerators | |
| 562219 | Other Nonhazardous Waste Treatment and Dispose | al |
| 562920 | Materials Recovery Facilities | |
| 562991 | Septic Tank and Related Services | |
| 562998 | All Other Miscellaneous Waste Management Service | es |

BUSINESS AND ENTREPRENEURSHIP

| NAICS Code | NAICS Title |
|------------|--|
| 521110 | Monetary Authorities-Central Bank |
| 522110 | Commercial Banking |
| 522120 | Savings Institutions |
| 522130 | Credit Unions |
| 522190 | Other Depository Credit Intermediation |
| 522210 | Credit Card Issuing |
| 522220 | Sales Financing |
| 522291 | Consumer Lending |
| 522292 | Real Estate Credit |
| 522293 | International Trade Financing |
| 522294 | Secondary Market Financing |
| 522298 | All Other Nondepository Credit Intermediation |
| 522310 | Mortgage and Nonmortgage Loan Brokers |
| 522320 | Financial Transactions Processing, Reserve, and Clearinghouse Activities |
| 522390 | Other Activities Related to Credit Intermediation |
| 523110 | Investment Banking and Securities Dealing |
| 523120 | Securities Brokerage |
| 523130 | Commodity Contracts Dealing |
| 523140 | Commodity Contracts Brokerage |
| 523210 | Securities and Commodity Exchanges |
| 523910 | Miscellaneous Intermediation |
| 523920 | Portfolio Management |
| 523930 | Investment Advice |
| 523991 | Trust, Fiduciary, and Custody Activities |
| 523999 | Miscellaneous Financial Investment Activities |
| 524113 | Direct Life Insurance Carriers |
| 524114 | Direct Health and Medical Insurance Carriers |
| 524126 | Direct Property and Casualty Insurance Carriers |
| 524127 | Direct Title Insurance Carriers |

| NAICS Code | NAICS Title Business and Entrepreneurship |
|------------|--|
| 524128 | Other Direct Insurance (except Life, Health, and Medical) Carriers |
| 524130 | Reinsurance Carriers |
| 524210 | Insurance Agencies and Brokerages |
| 524291 | Claims Adjusting |
| 524292 | Third Party Administration of Insurance and Pension Funds |
| 524298 | All Other Insurance Related Activities |
| 525110 | Pension Funds |
| 525120 | Health and Welfare Funds |
| 525190 | Other Insurance Funds |
| 525910 | Open-End Investment Funds |
| 525920 | Trusts, Estates, and Agency Accounts |
| 525990 | Other Financial Vehicles |
| 531110 | Lessors of Residential Buildings and Dwellings |
| 531120 | Lessors of Nonresidential Buildings (except Miniwarehouses) |
| 531130 | Lessors of Miniwarehouses and Self-Storage Units |
| 531190 | Lessors of Other Real Estate Property |
| 531210 | Offices of Real Estate Agents and Brokers |
| 531311 | Residential Property Managers |
| 531312 | Nonresidential Property Managers |
| 531312 | Offices of Real Estate Appraisers |
| 531320 | Other Activities Related to Real Estate |
| 532111 | Passenger Car Rental |
| 541690 | Other Scientific and Technical Consulting Services |
| 532112 | Passenger Car Leasing |
| 541110 | Offices of Lawyers |
| 541191 | Title Abstract and Settlement Offices |
| 541199 | All Other Legal Services |
| 541211 | Offices of Certified Public Accountants |
| 541213 | Tax Preparation Services |
| 541214 | Payroll Services |
| 541219 | Other Accounting Services |
| 541611 | Administrative Management and General Management Consulting Services |
| 541612 | Human Resources Consulting Services |
| 541613 | Marketing Consulting Services |
| 541618 | Other Management Consulting Services |
| 541810 | Advertising Agencies |
| 541820 | Public Relations Agencies |
| 541830 | Media Buying Agencies |
| 541840 | Media Representatives |
| 541850 | Outdoor Advertising |
| 541860 | Direct Mail Advertising |
| 541870 | Advertising Material Distribution Services |
| 541890 | Other Services Related to Advertising |
| 541910 | Marketing Research and Public Opinion Polling |
| 541990 | All Other Professional, Scientific, and Technical Services |
| 551111 | Offices of Bank Holding Companies |
| 551112 | Offices of Other Holding Companies |
| 551114 | Corporate, Subsidiary, and Regional Managing Offices |
| 561110 | Office Administrative Services |
| 561210 | Facilities Support Services |
| 561311 | Employment Placement Agencies |
| 561312 | Executive Search Services |
| 561320 | Temporary Help Services |
| 561330 | Professional Employer Organizations |
| 561410 | Document Preparation Services |
| 561421 | Telephone Answering Services |
| 561422 | Telemarketing Bureaus and Other Contact Centers |
| 301422 | relemantening bureaus and Other Contact Centers |

| NAICS Code | NAICS Title Business and Entrepreneurship |
|------------|---|
| 561431 | Private Mail Centers |
| 561439 | Other Business Service Centers (including Copy Shops) |
| 561440 | Collection Agencies |
| 561450 | Credit Bureaus |
| 561491 | Repossession Services |
| 561492 | Court Reporting and Stenotype Services |
| 561499 | All Other Business Support Services |
| 812210 | Funeral Homes and Funeral Services |
| 812220 | Cemeteries and Crematories |
| 813910 | Business Associations |
| 532210 | Consumer Electronics and Appliances Rental |
| 532281 | Formal Wear and Costume Rental |
| 532282 | Video Tape and Disc Rental |
| 532283 | Home Health Equipment Rental |
| 532284 | Recreational Goods Rental |
| 532289 | All Other Consumer Goods Rental |
| 532310 | General Rental Centers |
| 532411 | Commercial Air, Rail, and Water Transportation Equipment Rental and Leasing |
| 532412 | Construction, Mining, and Forestry Machinery and Equipment Rental and Leasing |
| 532420 | Office Machinery and Equipment Rental and Leasing |
| 532490 | Other Commercial and Industrial Machinery and Equipment Rental and Leasing |
| 533110 | Lessors of Nonfinancial Intangible Assets (except Copyrighted Works) |
| 541360 | Geophysical Surveying and Mapping Services |
| 541930 | Translation and Interpretation Services |
| 541720 | Research and Development in the Social Sciences and Humanities |
| 561510 | Travel Agencies |
| 561520 | Tour Operators |
| 561591 | Convention and Visitors Bureaus |
| 561599 | All Other Travel Arrangement and Reservation Services |
| 561611 | Investigation Services |
| 561612 | Security Guards and Patrol Services |
| 561613 | Armored Car Services |
| 561621 | Security Systems Services (except Locksmiths) |
| 561622 | Locksmiths |
| 561720 | Janitorial Services |
| 561730 | Landscaping Services |
| 561740 | Carpet and Upholstery Cleaning Services |
| 811192 | · · · · · · · |
| | Car Washes |
| 811411 | Home and Garden Equipment Repair and Maintenance |
| 811412 | Appliance Repair and Maintenance |
| 811420 | Reupholstery and Furniture Repair |
| 811430 | Footwear and Leather Goods Repair |
| 811490 | Other Personal and Household Goods Repair and Maintenance |
| 812111 | Barber Shops |
| 812112 | Beauty Salons |
| 812113 | Nail Salons |
| 812191 | Diet and Weight Reducing Centers |
| 812199 | Other Personal Care Services |
| 812310 | Coin-Operated Laundries and Drycleaners |
| 812320 | Drycleaning and Laundry Services (except Coin-Operated) |
| 812331 | Linen Supply |
| 812332 | Industrial Launderers |
| 812910 | Pet Care (except Veterinary) Services |
| 812921 | Photofinishing Laboratories (except One-Hour) |
| 812922 | One-Hour Photofinishing |
| 812930 | Parking Lots and Garages |
| 812990 | All Other Personal Services |
| | |

| NAICS Code | NAICS Title | Business and Entrepreneurship |
|-----------------|---|-------------------------------|
| 561 <i>7</i> 90 | Other Services to Buildings and Dwellings | |
| 561910 | Packaging and Labeling Services | |
| 561920 | Convention and Trade Show Organizers | |
| 561990 | All Other Support Services | |

EDUCATION AND HUMAN DEVELOPMENT

| NAICS Code | NAICS Title |
|------------|--|
| 611110 | Elementary and Secondary Schools |
| 611210 | Junior Colleges |
| 611310 | Colleges, Universities, and Professional Schools |
| 611410 | Business and Secretarial Schools |
| 611420 | Computer Training |
| 611430 | Professional and Management Development Training |
| 611511 | Cosmetology and Barber Schools |
| 611512 | Flight Training |
| 611513 | Apprenticeship Training |
| 611519 | Other Technical and Trade Schools |
| 611610 | Fine Arts Schools |
| 611620 | Sports and Recreation Instruction |
| 611630 | Language Schools |
| 611691 | Exam Preparation and Tutoring |
| 611692 | Automobile Driving Schools |
| 611699 | All Other Miscellaneous Schools and Instruction |
| 611710 | Educational Support Services |
| 624110 | Child and Youth Services |
| 624120 | Services for the Elderly and Persons with Disabilities |
| 624190 | Other Individual and Family Services |
| 624210 | Community Food Services |
| 624221 | Temporary Shelters |
| 624229 | Other Community Housing Services |
| 624230 | Emergency and Other Relief Services |
| 624310 | Vocational Rehabilitation Services |
| 624410 | Child Day Care Services |

ENERGY, CONSTRUCTION, AND UTILITIES

| NAICS Code | NAICS Title |
|----------------|---|
| 221111 | Hydroelectric Power Generation |
| 221112 | Fossil Fuel Electric Power Generation |
| 221113 | Nuclear Electric Power Generation |
| 221114 | Solar Electric Power Generation |
| 221115 | Wind Electric Power Generation |
| 221116 | Geothermal Electric Power Generation |
| 22111 <i>7</i> | Biomass Electric Power Generation |
| 221118 | Other Electric Power Generation |
| 221121 | Electric Bulk Power Transmission and Control |
| 221122 | Electric Power Distribution |
| 221210 | Natural Gas Distribution |
| 221320 | Sewage Treatment Facilities |
| 221330 | Steam and Air-Conditioning Supply |
| 236115 | New Single-Family Housing Construction (except For-Sale Builders) |
| 236116 | New Multifamily Housing Construction (except For-Sale Builders) |
| 236117 | New Housing For-Sale Builders |

| NAICS Code | NAICS Title Energy, Construction, and Utilities |
|------------|---|
| 236118 | Residential Remodelers |
| 236210 | Industrial Building Construction |
| 236220 | Commercial and Institutional Building Construction |
| 237110 | Water and Sewer Line and Related Structures Construction |
| 237120 | Oil and Gas Pipeline and Related Structures Construction |
| 237130 | Power and Communication Line and Related Structures Construction |
| 237210 | Land Subdivision |
| 237310 | Highway, Street, and Bridge Construction |
| 237990 | Other Heavy and Civil Engineering Construction |
| 238110 | Poured Concrete Foundation and Structure Contractors |
| 238120 | Structural Steel and Precast Concrete Contractors |
| 238130 | Framing Contractors |
| 238140 | Masonry Contractors |
| 238150 | Glass and Glazing Contractors |
| 238160 | Roofing Contractors |
| 238170 | • |
| 238170 | Siding Contractors Other Foundation, Structure, and Building Exterior Contractors |
| 238210 | |
| | Electrical Contractors and Other Wiring Installation Contractors |
| 238220 | Plumbing, Heating, and Air-Conditioning Contractors |
| 238290 | Other Building Equipment Contractors |
| 238310 | Drywall and Insulation Contractors |
| 238320 | Painting and Wall Covering Contractors |
| 238330 | Flooring Contractors |
| 541320 | Landscape Architectural Services |
| 238340 | Tile and Terrazzo Contractors |
| 238350 | Finish Carpentry Contractors |
| 238390 | Other Building Finishing Contractors |
| 238910 | Site Preparation Contractors |
| 238990 | All Other Specialty Trade Contractors |
| 541310 | Architectural Services |
| 541330 | Engineering Services |
| 541340 | Drafting Services |
| 541350 | Building Inspection Services |
| 541370 | Surveying and Mapping (except Geophysical) Services |
| 423720 | Plumbing and Heating Equipment and Supplies (Hydronics) Merchant Wholesalers |
| 423730 | Warm Air Heating and Air-Conditioning Equipment and Supplies Merchant Wholesalers |
| 444190 | Other Building Material Dealers |
| 541410 | Interior Design Services |
| 541420 | Industrial Design Services |
| 211120 | Crude Petroleum Extraction |
| 211130 | Natural Gas Extraction |
| 212111 | Bituminous Coal and Lignite Surface Mining |
| 212112 | Bituminous Coal Underground Mining |
| 212113 | Anthracite Mining |
| 212210 | Iron Ore Mining |
| 212221 | Gold Ore Mining |
| 212222 | Silver Ore Mining |
| 212230 | Copper, Nickel, Lead, and Zinc Mining |
| 212291 | Uranium-Radium-Vanadium Ore Mining |
| 212299 | All Other Metal Ore Mining |
| 212311 | Dimension Stone Mining and Quarrying |
| 212312 | Crushed and Broken Limestone Mining and Quarrying |
| 212313 | Crushed and Broken Granite Mining and Quarrying |
| 212319 | Other Crushed and Broken Stone Mining and Quarrying |
| 212321 | Construction Sand and Gravel Mining |
| 212322 | Industrial Sand Mining |
| 212324 | Kaolin and Ball Clay Mining |
| | |

| NAICS Code | NAICS Title | Energy, Construction, and Utilities |
|------------|---|-------------------------------------|
| 212325 | Clay and Ceramic and Refractory Minerals Mining | |
| 212391 | Potash, Soda, and Borate Mineral Mining | |
| 212392 | Phosphate Rock Mining | |
| 212393 | Other Chemical and Fertilizer Mineral Mining | |
| 212399 | All Other Nonmetallic Mineral Mining | |
| 213111 | Drilling Oil and Gas Wells | |
| 213112 | Support Activities for Oil and Gas Operations | |
| 213113 | Support Activities for Coal Mining | |
| 213114 | Support Activities for Metal Mining | |
| 213115 | Support Activities for Nonmetallic Minerals (except Fuels) Mini | ng |

HEALTH CARE

| NAICS Code | NAICS Title |
|------------|---|
| 424210 | Drugs and Druggists' Sundries Merchant Wholesalers |
| 621111 | Offices of Physicians (except Mental Health Specialists) |
| 621112 | Offices of Physicians, Mental Health Specialists |
| 621210 | Offices of Dentists |
| 621310 | Offices of Chiropractors |
| 621320 | Offices of Optometrists |
| 621330 | Offices of Mental Health Practitioners (except Physicians) |
| 621340 | Offices of Physical, Occupational and Speech Therapists, and Audiologists |
| 621391 | Offices of Podiatrists |
| 621399 | Offices of All Other Miscellaneous Health Practitioners |
| 621410 | Family Planning Centers |
| 621420 | Outpatient Mental Health and Substance Abuse Centers |
| 621491 | HMO Medical Centers |
| 621492 | Kidney Dialysis Centers |
| 621493 | Freestanding Ambulatory Surgical and Emergency Centers |
| 621498 | All Other Outpatient Care Centers |
| 621511 | Medical Laboratories |
| 621512 | Diagnostic Imaging Centers |
| 621610 | Home Health Care Services |
| 621910 | Ambulance Services |
| 621991 | Blood and Organ Banks |
| 621999 | All Other Miscellaneous Ambulatory Health Care Services |
| 622110 | General Medical and Surgical Hospitals |
| 622210 | Psychiatric and Substance Abuse Hospitals |
| 622310 | Specialty (except Psychiatric and Substance Abuse) Hospitals |
| 623110 | Nursing Care Facilities (Skilled Nursing Facilities) |
| 623210 | Residential Intellectual and Developmental Disability Facilities |
| 623220 | Residential Mental Health and Substance Abuse Facilities |
| 623311 | Continuing Care Retirement Communities |
| 623312 | Assisted Living Facilities for the Elderly |
| 623990 | Other Residential Care Facilities |
| | |

ICT AND DIGITAL MEDIA

| NAICS Code | NAICS Title |
|------------|---|
| 541921 | Photography Studios, Portrait |
| 541922 | Commercial Photography |
| 334220 | Radio and Television Broadcasting and Wireless Communications Equipment Manufacturing |
| 511210 | Software Publishers |
| 512110 | Motion Picture and Video Production |
| 517311 | Wired Telecommunications Carriers |
| 517311 | Wired Telecommunications Carriers Wireless Telecommunications Carriers (except Satellite) |
| 517410 | Satellite Telecommunications |
| 517911 | Telecommunications Resellers |
| 517919 | All Other Telecommunications |
| 518210 | Data Processing, Hosting, and Related Services |
| 519130 | Internet Publishing and Broadcasting and Web Search Portals |
| 541511 | Custom Computer Programming Services |
| 541512 | Computer Systems Design Services |
| 512120 | Motion Picture and Video Distribution |
| 512120 | Motion Picture Theaters (except Drive-Ins) |
| 512132 | Drive-In Motion Picture Theaters |
| 512132 | Teleproduction and Other Postproduction Services |
| 512199 | Other Motion Picture and Video Industries |
| 512199 | Music Publishers |
| 512240 | Sound Recording Studios |
| 512250 | Record Production and Distribution |
| 512290 | Other Sound Recording Industries |
| 515111 | Radio Networks |
| 515111 | Radio Stations |
| 515112 | Television Broadcasting |
| 515120 | Cable and Other Subscription Programming |
| 541430 | Graphic Design Services |
| 541513 | Computer Facilities Management Services |
| 541519 | Other Computer Related Services |
| 541490 | Other Specialized Design Services |
| 811211 | Consumer Electronics Repair and Maintenance |
| 811212 | Computer and Office Machine Repair and Maintenance |
| 811213 | Communication Equipment Repair and Maintenance |
| 811219 | Other Electronic and Precision Equipment Repair and Maintenance |
| 511110 | Newspaper Publishers |
| 511120 | Periodical Publishers |
| 511130 | Book Publishers |
| 511140 | Directory and Mailing List Publishers |
| 511191 | Greeting Card Publishers |
| 511199 | All Other Publishers |
| 519110 | News Syndicates |
| 519110 | Libraries and Archives |
| 519190 | All Other Information Services |
| 317170 | All Office information pervices |

LIFE SCIENCES AND BIOTECHNOLOGY

| NAICS Code | NAICS Title |
|------------|---|
| 311221 | Wet Corn Milling |
| 311224 | Soybean and Other Oilseed Processing |
| 325193 | Ethyl Alcohol Manufacturing |
| 325220 | Artificial and Synthetic Fibers and Filaments Manufacturing |
| 325311 | Nitrogenous Fertilizer Manufacturing |

| NAICS Code | NAICS Title Life Sciences and Biotechnology |
|------------|---|
| 325312 | Phosphatic Fertilizer Manufacturing |
| 325314 | Fertilizer (Mixing Only) Manufacturing |
| 325320 | Pesticide and Other Agricultural Chemical Manufacturing |
| 325411 | Medicinal and Botanical Manufacturing |
| 325412 | Pharmaceutical Preparation Manufacturing |
| 325413 | In-Vitro Diagnostic Substance Manufacturing |
| 325414 | Biological Product (except Diagnostic) Manufacturing |
| 333314 | Optical Instrument and Lens Manufacturing |
| 334510 | Electromedical and Electrotherapeutic Apparatus Manufacturing |
| 334516 | Analytical Laboratory Instrument Manufacturing |
| 334517 | Irradiation Apparatus Manufacturing |
| 339112 | Surgical and Medical Instrument Manufacturing |
| 339113 | Surgical Appliance and Supplies Manufacturing |
| 339114 | Dental Equipment and Supplies Manufacturing |
| 339115 | Ophthalmic Goods Manufacturing |
| 339116 | Dental Laboratories |
| 423450 | Medical, Dental, and Hospital Equipment and Supplies Merchant Wholesalers |
| 423460 | Ophthalmic Goods Merchant Wholesalers |
| 446110 | Pharmacies and Drug Stores |
| 446130 | Optical Goods Stores |
| 541380 | Testing Laboratories |
| 541713 | Research and Development in Nanotechnology |
| 541714 | Research and Development in Biotechnology (except Nanobiotechnology) |
| 541715 | Research and Development in the Physical, Engineering, and Life Sciences (except Nanotechnology |
| | and Biotechnology) |

PUBLIC SAFETY AND GOVERNMENT

| NAICS Code | NAICS Title |
|------------|---|
| 902619 | All Other Schools and Educational Support Services (State Government) |
| 903619 | All Other Schools and Educational Support Services (Local Government) |
| 901149 | US Postal Service |
| 901199 | Federal Government, Civilian, Excluding Postal Service |
| 901200 | Federal Government, Military |
| 902611 | Elementary and Secondary Schools (State Government) |
| 902612 | Colleges, Universities, and Professional Schools (State Government) |
| 902622 | Hospitals (State Government) |
| 902999 | State Government, Excluding Education and Hospitals |
| 903611 | Elementary and Secondary Schools (Local Government) |
| 903612 | Colleges, Universities, and Professional Schools (Local Government) |
| 903622 | Hospitals (Local Government) |
| 903999 | Local Government, Excluding Education and Hospitals |
| | |

RETAIL, HOSPITALITY, AND TOURISM

| NAICS Code | NAICS Title |
|----------------|---|
| <i>7</i> 11110 | Theater Companies and Dinner Theaters |
| 711120 | Dance Companies |
| 711130 | Musical Groups and Artists |
| <i>7</i> 11190 | Other Performing Arts Companies |
| <i>7</i> 11211 | Sports Teams and Clubs |
| 711212 | Racetracks |
| 711219 | Other Spectator Sports |
| <i>7</i> 11310 | Promoters of Performing Arts, Sports, and Similar Events with Facilities |
| 711320 | Promoters of Performing Arts, Sports, and Similar Events without Facilities |

| NAICS Code | NAICS Title Retail, Hospitality, and Tourism |
|------------|---|
| 711410 | Agents and Managers for Artists, Athletes, Entertainers, and Other Public Figures |
| 711510 | Independent Artists, Writers, and Performers |
| 712110 | Museums |
| 712120 | Historical Sites |
| 712130 | Zoos and Botanical Gardens |
| 712190 | Nature Parks and Other Similar Institutions |
| 713110 | Amusement and Theme Parks |
| 713120 | Amusement Arcades |
| 713210 | Casinos (except Casino Hotels) |
| 713290 | Other Gambling Industries |
| 713910 | Golf Courses and Country Clubs |
| 713920 | Skiing Facilities |
| 713930 | Marinas |
| 713940 | Fitness and Recreational Sports Centers |
| 713950 | Bowling Centers |
| 713990 | All Other Amusement and Recreation Industries |
| 721110 | Hotels (except Casino Hotels) and Motels |
| 721120 | Casino Hotels |
| 721191 | Bed-and-Breakfast Inns |
| 721199 | All Other Traveler Accommodation |
| 721211 | RV (Recreational Vehicle) Parks and Campgrounds |
| 721214 | Recreational and Vacation Camps (except Campgrounds) |
| 721310 | Rooming and Boarding Houses, Dormitories, and Workers' Camps |
| 722310 | Food Service Contractors |
| 722320 | Caterers |
| 722330 | Mobile Food Services |
| 722410 | Drinking Places (Alcoholic Beverages) |
| 722511 | Full-Service Restaurants |
| 722513 | Limited-Service Restaurants |
| 722514 | Cafeterias, Grill Buffets, and Buffets |
| 722515 | Snack and Nonalcoholic Beverage Bars |
| 485310 | Taxi Service |
| 485320 | Limousine Service |
| 442110 | Furniture Stores |
| 442210 | Floor Covering Stores |
| 442291 | Window Treatment Stores |
| 442299 | All Other Home Furnishings Stores |
| 443141 | Household Appliance Stores |
| 443142 | Electronics Stores |
| 444110 | Home Centers |
| 444120 | Paint and Wallpaper Stores |
| 444130 | Hardware Stores |
| 444210 | Outdoor Power Equipment Stores |
| 444220 | Nursery, Garden Center, and Farm Supply Stores |
| 445110 | Supermarkets and Other Grocery (except Convenience) Stores |
| 445120 | Convenience Stores |
| 445210 | Meat Markets |
| 445220 | Fish and Seafood Markets |
| 445291 | Baked Goods Stores |
| 445292 | Confectionery and Nut Stores |
| 445299 | All Other Specialty Food Stores |
| 445299 | Beer, Wine, and Liquor Stores |
| 446120 | Cosmetics, Beauty Supplies, and Perfume Stores |
| 446191 | Food (Health) Suppliement Stores |
| 446199 | All Other Health and Personal Care Stores |
| | |
| 447110 | Gasoline Stations with Convenience Stores |
| 447190 | Other Gasoline Stations |

| NAICS Code | NAICS Title Retail, Hospitality, and Tourism |
|------------------|---|
| 448110 | Men's Clothing Stores |
| 448120 | Women's Clothing Stores |
| 448130 | Children's and Infants' Clothing Stores |
| 448140 | Family Clothing Stores |
| 448150 | Clothing Accessories Stores |
| 448190 | Other Clothing Stores |
| 448210 | Shoe Stores |
| 448310 | Jewelry Stores |
| 448320 | Luggage and Leather Goods Stores |
| 451110 | Sporting Goods Stores |
| 451120 | Hobby, Toy, and Game Stores |
| 451130 | Sewing, Needlework, and Piece Goods Stores |
| 451140 | Musical Instrument and Supplies Stores |
| 451211 | Book Stores |
| 451212 | News Dealers and Newsstands |
| 452210 | Department Stores |
| 452311 | Warehouse Clubs and Supercenters |
| 452319 | All Other General Merchandise Stores |
| 453110 | Florists |
| 453210 | Office Supplies and Stationery Stores |
| 453220 | Gift, Novelty, and Souvenir Stores |
| 453310 | Used Merchandise Stores |
| 453910 | Pet and Pet Supplies Stores |
| 453920 | Art Dealers |
| 453930 | Manufactured (Mobile) Home Dealers |
| 453991 | Tobacco Stores |
| 453998 | All Other Miscellaneous Store Retailers (except Tobacco Stores) |
| 454110 | Electronic Shopping and Mail-Order Houses |
| 454210 | Vending Machine Operators |
| 454310 | Fuel Dealers |
| 454390 | Other Direct Selling Establishments |
| 532120 | Truck, Utility Trailer, and RV (Recreational Vehicle) Rental and Leasing |
| 423110 | Automobile and Other Motor Vehicle Merchant Wholesalers |
| 423110 | Motor Vehicle Supplies and New Parts Merchant Wholesalers |
| 423120 | Tire and Tube Merchant Wholesalers |
| 423140 | Motor Vehicle Parts (Used) Merchant Wholesalers |
| 423210 | Furniture Merchant Wholesalers |
| | |
| 423220 | Home Furnishing Merchant Wholesalers |
| 423310 | Lumber, Plywood, Millwork, and Wood Panel Merchant Wholesalers |
| 423320 | Brick, Stone, and Related Construction Material Merchant Wholesalers |
| 423330 | Roofing, Siding, and Insulation Material Merchant Wholesalers |
| 423390 | Other Construction Material Merchant Wholesalers |
| 423410 | Photographic Equipment and Supplies Merchant Wholesalers |
| 423420 | Office Equipment Merchant Wholesalers |
| 423430 | Computer and Computer Peripheral Equipment and Software Merchant Wholesalers |
| 423440 | Other Commercial Equipment Merchant Wholesalers |
| 423490 | Other Professional Equipment and Supplies Merchant Wholesalers |
| 423510 | Metal Service Centers and Other Metal Merchant Wholesalers |
| 423520 | Coal and Other Mineral and Ore Merchant Wholesalers |
| 423610 | Electrical Apparatus and Equipment, Wiring Supplies, and Related Equipment Merchant Wholesalers |
| 423620 | Household Appliances, Electric Housewares, and Consumer Electronics Merchant Wholesalers |
| 423690 | Other Electronic Parts and Equipment Merchant Wholesalers |
| 423710 | Hardware Merchant Wholesalers |
| ·= - · · • | |
| 423740 | Ketrideration Equipment and Supplies Merchant vynolesalers |
| 423740 423810 | Refrigeration Equipment and Supplies Merchant Wholesalers Construction and Mining (except Oil Well) Machinery and Equipment Merchant Wholesalers |

| NAICS Code | NAICS Title Retail, Hospitality, and Tourism |
|------------|--|
| 423850 | Service Establishment Equipment and Supplies Merchant Wholesalers |
| 423860 | Transportation Equipment and Supplies (except Motor Vehicle) Merchant Wholesalers |
| 423910 | Sporting and Recreational Goods and Supplies Merchant Wholesalers |
| 423920 | Toy and Hobby Goods and Supplies Merchant Wholesalers |
| 423930 | Recyclable Material Merchant Wholesalers |
| 423940 | Jewelry, Watch, Precious Stone, and Precious Metal Merchant Wholesalers |
| 423990 | Other Miscellaneous Durable Goods Merchant Wholesalers |
| 424110 | Printing and Writing Paper Merchant Wholesalers |
| 424120 | Stationery and Office Supplies Merchant Wholesalers |
| 424130 | Industrial and Personal Service Paper Merchant Wholesalers |
| 424310 | Piece Goods, Notions, and Other Dry Goods Merchant Wholesalers |
| 424320 | Men's and Boys' Clothing and Furnishings Merchant Wholesalers |
| 424330 | Women's, Children's, and Infants' Clothing and Accessories Merchant Wholesalers |
| 424340 | Footwear Merchant Wholesalers |
| 424410 | General Line Grocery Merchant Wholesalers |
| 424420 | Packaged Frozen Food Merchant Wholesalers |
| 424450 | Confectionery Merchant Wholesalers |
| 424480 | Fresh Fruit and Vegetable Merchant Wholesalers |
| 424490 | Other Grocery and Related Products Merchant Wholesalers |
| 424610 | Plastics Materials and Basic Forms and Shapes Merchant Wholesalers |
| 424690 | Other Chemical and Allied Products Merchant Wholesalers |
| 424710 | Petroleum Bulk Stations and Terminals |
| 424720 | Petroleum and Petroleum Products Merchant Wholesalers (except Bulk Stations and Terminals) |
| 424810 | Beer and Ale Merchant Wholesalers |
| 424820 | Wine and Distilled Alcoholic Beverage Merchant Wholesalers |
| 424920 | Book, Periodical, and Newspaper Merchant Wholesalers |
| 424930 | Flower, Nursery Stock, and Florists' Supplies Merchant Wholesalers |
| 424940 | Tobacco and Tobacco Product Merchant Wholesalers |
| 424950 | Paint, Varnish, and Supplies Merchant Wholesalers |
| 424990 | Other Miscellaneous Nondurable Goods Merchant Wholesalers |
| 425110 | Business to Business Electronic Markets |
| 425120 | Wholesale Trade Agents and Brokers |

APPENDIX C: SECTOR DEFINITIONS BY SOC CODES

ADVANCED MANUFACTURING

| SOC Code | SOC Title |
|--------------------|---|
| 11-3051 | Industrial Production Managers |
| 17-2011 | Aerospace Engineers |
| 17-2011 | Civil Engineers |
| 17-2061 | Computer Hardware Engineers |
| 17-2001 | Electrical Engineers |
| 17-2071 | Electronics Engineers, Except Computer |
| 17-20/2 | Health and Safety Engineers, Except Mining Safety Engineers and Inspectors |
| 17-2111 | Industrial Engineers |
| 17-2112 | Marine Engineers and Naval Architects |
| 17-2121 | Materials Engineers |
| 17-2141 | Mechanical Engineers |
| 17-2199 | · · · · · · · · · · · · · · · · · · · |
| 17-2199 | Engineers, All Other Mechanical Drafters |
| 17-3013 | Drafters, All Other |
| 17-3017 | Aerospace Engineering and Operations Technologists and Technicians |
| 17-3021 | |
| 17-3022 | Civil Engineering Technologists and Technicians |
| 17-3023 | Electrical and Electronic Engineering Technologists and Technicians |
| | Electro-Mechanical and Mechatronics Technologists and Technicians |
| 17-3026 17-3027 | Industrial Engineering Technologists and Technicians Mechanical Engineering Technologists and Technicians |
| 17-302/ | <u> </u> |
| 1 <i>7</i> -3098 | Calibration Technologists and Technicians and Engineering Technologists and Technicians, Except |
| 43-5111 | Drafters, All Other Weighers, Measurers, Checkers, and Samplers, Recordkeeping |
| 47-2211 | Sheet Metal Workers |
| 47-2211 | Structural Iron and Steel Workers |
| 49-2011 | Computer, Automated Teller, and Office Machine Repairers |
| 49-2011 | · · · · · · · · · · · · · · · · · · · |
| | Electrical and Electronics Repairers, Commercial and Industrial Equipment Electrical and Electronics Repairers, Powerhouse, Substation, and Relay |
| 49-2095 49-3011 | Aircraft Mechanics and Service Technicians |
| 49-9031 | |
| 49-9041 | Home Appliance Repairers Industrial Machinery Mechanics |
| 49-9041 | |
| 49-9063 | Camera and Photographic Equipment Repairers Musical Instrument Repairers and Tuners |
| 49-9064 | Watch and Clock Repairers |
| 49-9069 | Precision Instrument and Equipment Repairers, All Other |
| 49-9071 | Maintenance and Repair Workers, General |
| 49-9094 | • |
| | Locksmiths and Safe Repairers First Line Supervisors of Production and Operating Workers |
| 51-1011 51-2011 | First-Line Supervisors of Production and Operating Workers Aircraft Structure, Surfaces Pigging, and Systems Assemblers |
| 51-2011 | Aircraft Structure, Surfaces, Rigging, and Systems Assemblers Coil Winders, Tapers, and Finishers |
| 51-2021 | <u> </u> |
| 51-2028 | Electrical, Electronic, and Electromechanical Assemblers, Except Coil Winders, Tapers, and Finishers Engine and Other Machine Assemblers |
| | Structural Metal Fabricators and Fitters |
| 51-2041 | Fiberglass Laminators and Fabricators |
| 51-2051 | |
| 51-2061 | Timing Device Assemblers and Adjusters |
| 51-2098 | Miscellaneous Assemblers and Fabricators |
| 51-3022 | Meat, Poultry, and Fish Cutters and Trimmers |
| 51-3023 | Slaughterers and Meat Packers |
| 51-3091 | Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders |
| 51-3092 | Food Batchmakers |
| 51-3093 | Food Cooking Machine Operators and Tenders |

| SOC Code | SOC Title Advanced Manufactur |
|----------|---|
| 51-3099 | Food Processing Workers, All Other |
| 51-4021 | Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic |
| 51-4022 | Forging Machine Setters, Operators, and Tenders, Metal and Plastic |
| 51-4023 | Rolling Machine Setters, Operators, and Tenders, Metal and Plastic |
| 51-4031 | Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic |
| 51-4032 | Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic |
| 51-4033 | Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal a Plastic |
| 51-4034 | Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic |
| 51-4035 | Milling and Planing Machine Setters, Operators, and Tenders, Metal and Plastic |
| 51-4041 | Machinists |
| 51-4051 | Metal-Refining Furnace Operators and Tenders |
| 51-4052 | Pourers and Casters, Metal |
| 51-4061 | Model Makers, Metal and Plastic |
| 51-4062 | Patternmakers, Metal and Plastic |
| 51-4071 | Foundry Mold and Coremakers |
| 51-4072 | Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic |
| 51-4081 | Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic |
| 51-4111 | Tool and Die Makers |
| 51-4121 | Welders, Cutters, Solderers, and Brazers |
| 51-4122 | Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders |
| 51-4191 | Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic |
| 51-4192 | Layout Workers, Metal and Plastic |
| 51-4193 | Plating Machine Setters, Operators, and Tenders, Metal and Plastic |
| 51-4194 | Tool Grinders, Filers, and Sharpeners |
| 51-4199 | Metal Workers and Plastic Workers, All Other |
| 51-5111 | Prepress Technicians and Workers |
| 51-5112 | Printing Press Operators |
| 51-5113 | Print Binding and Finishing Workers |
| 51-6031 | Sewing Machine Operators |
| 51-6041 | Shoe and Leather Workers and Repairers |
| 51-6042 | Shoe Machine Operators and Tenders |
| 51-6051 | Sewers, Hand |
| 51-6061 | Textile Bleaching and Dyeing Machine Operators and Tenders |
| 51-6062 | Textile Cutting Machine Setters, Operators, and Tenders |
| 51-6064 | Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders |
| 51-6091 | Extruding and Forming Machine Setters, Operators, and Tenders, Synthetic and Glass Fibers |
| 51-6092 | Fabric and Apparel Patternmakers |
| 51-6093 | Upholsterers |
| 51-6099 | Textile, Apparel, and Furnishings Workers, All Other |
| 51-7011 | Cabinetmakers and Bench Carpenters |
| 51-7021 | Furniture Finishers |
| 51-7041 | Sawing Machine Setters, Operators, and Tenders, Wood |
| 51-7042 | Woodworking Machine Setters, Operators, and Tenders, Except Sawing |
| 51-9012 | Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders |
| 51-9021 | Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders |
| 51-9022 | Grinding and Polishing Workers, Hand |
| 51-9023 | Mixing and Blending Machine Setters, Operators, and Tenders |
| 51-9031 | Cutters and Trimmers, Hand |
| 51-9032 | Cutting and Slicing Machine Setters, Operators, and Tenders |
| 51-9041 | Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders |
| 51-9051 | Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders |
| 51-9111 | Packaging and Filling Machine Operators and Tenders |
| 51-9162 | Computer Numerically Controlled Tool Programmers |
| 51-9161 | Computer Numerically Controlled Tool Operators |
| 51-9124 | Coating, Painting, and Spraying Machine Setters, Operators, and Tenders |
| 51-9123 | Painting, Coating, and Decorating Workers |
| | |

| SOC Code | SOC Title | Advanced Manufacturing |
|----------|---|------------------------|
| 51-9141 | Semiconductor Processing Technicians | |
| 51-9151 | Photographic Process Workers and Processing Machine Operators | |
| 51-9191 | Adhesive Bonding Machine Operators and Tenders | |
| 51-9192 | Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders | i e |
| 51-9193 | Cooling and Freezing Equipment Operators and Tenders | |
| 51-9194 | Etchers and Engravers | |
| 51-9195 | Molders, Shapers, and Casters, Except Metal and Plastic | |
| 51-9196 | Paper Goods Machine Setters, Operators, and Tenders | |
| 51-9197 | Tire Builders | |
| 51-9198 | HelpersProduction Workers | |
| 51-9199 | Production Workers, All Other | |
| 53-7063 | Machine Feeders and Offbearers | |

ADVANCED TRANSPORTATION AND LOGISTICS

| SOC Code | SOC Title |
|----------|---|
| 11-3071 | Transportation, Storage, and Distribution Managers |
| 11-3111 | Compensation and Benefits Managers |
| 11-3121 | Human Resources Managers |
| 11-3131 | Training and Development Managers |
| 11-9013 | Farmers, Ranchers, and Other Agricultural Managers |
| 11-9021 | Construction Managers |
| 11-9031 | Education and Childcare Administrators, Preschool and Daycare |
| 11-9032 | Education Administrators, Kindergarten through Secondary |
| 11-9033 | Education Administrators, Postsecondary |
| 11-9039 | Education Administrators, All Other |
| 11-9041 | Architectural and Engineering Managers |
| 13-1081 | Logisticians |
| 43-5011 | Cargo and Freight Agents |
| 43-5021 | Couriers and Messengers |
| 43-5061 | Production, Planning, and Expediting Clerks |
| 43-5071 | Shipping, Receiving, and Inventory Clerks |
| 49-1011 | First-Line Supervisors of Mechanics, Installers, and Repairers |
| 49-2091 | Avionics Technicians |
| 49-2092 | Electric Motor, Power Tool, and Related Repairers |
| 49-2093 | Electrical and Electronics Installers and Repairers, Transportation Equipment |
| 49-2096 | Electronic Equipment Installers and Repairers, Motor Vehicles |
| 49-3021 | Automotive Body and Related Repairers |
| 49-3022 | Automotive Glass Installers and Repairers |
| 49-3023 | Automotive Service Technicians and Mechanics |
| 49-3031 | Bus and Truck Mechanics and Diesel Engine Specialists |
| 49-3041 | Farm Equipment Mechanics and Service Technicians |
| 49-3042 | Mobile Heavy Equipment Mechanics, Except Engines |
| 49-3043 | Rail Car Repairers |
| 49-3051 | Motorboat Mechanics and Service Technicians |
| 49-3052 | Motorcycle Mechanics |
| 49-3053 | Outdoor Power Equipment and Other Small Engine Mechanics |
| 49-3092 | Recreational Vehicle Service Technicians |
| 49-3093 | Tire Repairers and Changers |
| 49-9097 | Signal and Track Switch Repairers |
| 53-1041 | Aircraft Cargo Handling Supervisors |
| 53-1047 | First-Line Supervisors of Transportation and Material Moving Workers, Except Aircraft Cargo Handling Supervisors |
| 53-2011 | Airline Pilots, Copilots, and Flight Engineers |
| 53-2012 | Commercial Pilots |

| SOC Code | SOC Title Advanced Transportation and Logistics |
|----------|--|
| 53-2021 | Air Traffic Controllers |
| 53-2022 | Airfield Operations Specialists |
| 53-2031 | Flight Attendants |
| 53-3011 | Ambulance Drivers and Attendants, Except Emergency Medical Technicians |
| 53-3033 | Light Truck Drivers |
| 53-3052 | Bus Drivers, Transit and Intercity |
| 53-3031 | Driver/Sales Workers |
| 53-3032 | Heavy and Tractor-Trailer Truck Drivers |
| 53-3058 | Passenger Vehicle Drivers, Except Bus Drivers, Transit and Intercity |
| 53-3099 | Motor Vehicle Operators, All Other |
| 53-4011 | Locomotive Engineers |
| 53-4013 | Rail Yard Engineers, Dinkey Operators, and Hostlers |
| 53-4022 | Railroad Brake, Signal, and Switch Operators and Locomotive Firers |
| 53-4031 | Railroad Conductors and Yardmasters |
| 53-4041 | Subway and Streetcar Operators |
| 53-4099 | Rail Transportation Workers, All Other |
| 53-5011 | Sailors and Marine Oilers |
| 53-5021 | Captains, Mates, and Pilots of Water Vessels |
| 53-5022 | Motorboat Operators |
| 53-5031 | Ship Engineers |
| 53-6011 | Bridge and Lock Tenders |
| 53-6041 | Traffic Technicians |
| 53-6051 | Transportation Inspectors |
| 53-6061 | Passenger Attendants |
| 53-6098 | Aircraft Service Attendants and Transportation Workers, All Other |
| 53-7011 | Conveyor Operators and Tenders |
| 53-7021 | Crane and Tower Operators |
| 53-7031 | Dredge Operators |
| 53-7041 | Hoist and Winch Operators |
| 53-7051 | Industrial Truck and Tractor Operators |
| 53-7061 | Cleaners of Vehicles and Equipment |
| 53-7062 | Laborers and Freight, Stock, and Material Movers, Hand |
| 53-7065 | Stockers and Order Fillers |
| 53-7071 | Gas Compressor and Gas Pumping Station Operators |
| 53-7072 | Pump Operators, Except Wellhead Pumpers |
| 53-7121 | Tank Car, Truck, and Ship Loaders |
| 53-7199 | Material Moving Workers, All Other |

AGRICULTURE, WATER, AND ENVIRONMENTAL TECHNOLOGIES

| SOC Code | SOC Title |
|------------------|--|
| 51-9071 | Jewelers and Precious Stone and Metal Workers |
| 47-5044 | Loading and Moving Machine Operators, Underground Mining |
| 13-1074 | Farm Labor Contractors |
| 13-1075 | Labor Relations Specialists |
| 17-2021 | Agricultural Engineers |
| 17-2081 | Environmental Engineers |
| 1 <i>7</i> -2151 | Mining and Geological Engineers, Including Mining Safety Engineers |
| 17-3025 | Environmental Engineering Technologists and Technicians |
| 19-1011 | Animal Scientists |
| 19-1012 | Food Scientists and Technologists |
| 19-1013 | Soil and Plant Scientists |
| 19-1032 | Foresters |
| 19-2041 | Environmental Scientists and Specialists, Including Health |
| 19-2042 | Geoscientists, Except Hydrologists and Geographers |

| SOC Code | SOC Title Agriculture, Water, and Environmental Technologies |
|----------|--|
| 19-2043 | Hydrologists |
| 19-2099 | Physical Scientists, All Other |
| 19-3092 | Geographers |
| 19-4011 | Agricultural and Food Science Technicians |
| 19-4042 | Environmental Science and Protection Technicians, Including Health |
| 19-4071 | Forest and Conservation Technicians |
| 25-9021 | Farm and Home Management Educators |
| 27-1023 | Floral Designers |
| 29-1131 | Veterinarians |
| 29-2056 | Veterinary Technologists and Technicians |
| 31-9096 | Veterinary Assistants and Laboratory Animal Caretakers |
| 37-1012 | First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers |
| 37-2021 | Pest Control Workers |
| 37-3011 | Landscaping and Groundskeeping Workers |
| 37-3012 | Pesticide Handlers, Sprayers, and Applicators, Vegetation |
| 37-3013 | Tree Trimmers and Pruners |
| 37-3019 | Grounds Maintenance Workers, All Other |
| 45-1011 | First-Line Supervisors of Farming, Fishing, and Forestry Workers |
| 45-2011 | Agricultural Inspectors |
| 45-2021 | Animal Breeders |
| 45-2041 | Graders and Sorters, Agricultural Products |
| 45-2091 | Agricultural Equipment Operators |
| 45-2092 | Farmworkers and Laborers, Crop, Nursery, and Greenhouse |
| 45-2093 | Farmworkers, Farm, Ranch, and Aquacultural Animals |
| 45-2099 | Agricultural Workers, All Other |
| 45-3031 | Fishing and Hunting Workers |
| 45-4011 | Forest and Conservation Workers |
| 45-4021 | Fallers |
| 45-4022 | Logging Equipment Operators |
| 45-4023 | Log Graders and Scalers |
| 45-4029 | Logging Workers, All Other |
| 47-5011 | Derrick Operators, Oil and Gas |
| 47-5012 | Rotary Drill Operators, Oil and Gas |
| 47-5013 | Service Unit Operators, Oil and Gas |
| 47-5013 | Excavating and Loading Machine and Dragline Operators, Surface Mining |
| 47-5041 | Continuous Mining Machine Operators |
| 47-5051 | Rock Splitters, Quarry |
| 47-5043 | Roof Bolters, Mining |
| 47-5071 | Roustabouts, Oil and Gas |
| 47-5081 | HelpersExtraction Workers |
| | Earth Drillers, Except Oil and Gas; and Explosives Workers, Ordnance Handling Experts, and |
| 47-5097 | Blasters |
| 47-5098 | Underground Mining Machine Operators and Extraction Workers, All Other |
| 51-8021 | Stationary Engineers and Boiler Operators |
| 51-8031 | Water and Wastewater Treatment Plant and System Operators |
| | |

BUSINESS AND ENTREPRENEURSHIP

| SOC Code | SOC Title |
|--------------------|---|
| 11-1011 | Chief Executives |
| 11-1021 | General and Operations Managers |
| 11-2011 | Advertising and Promotions Managers |
| 11-2021 | Marketing Managers |
| 11-2022 | Sales Managers |
| 11-2031 | Public Relations and Fundraising Managers |
| 11-3011 | Administrative Services and Facilities Managers |
| 11-3031 | Financial Managers |
| 11-3061 | Purchasing Managers |
| 11-9141 | Property, Real Estate, and Community Association Managers |
| 11-9161 | Emergency Management Directors |
| | Personal Service Managers, All Other; Entertainment and Recreation Managers, Except Gambling; |
| 11-9198 | and Managers, All Other |
| 13-1011 | Agents and Business Managers of Artists, Performers, and Athletes |
| 13-1028 | Buyers and Purchasing Agents |
| 13-1031 | Claims Adjusters, Examiners, and Investigators |
| 13-1032 | Insurance Appraisers, Auto Damage |
| 13-1041 | Compliance Officers |
| 13-1051 | Cost Estimators |
| 13-1071 | Human Resources Specialists |
| 13-1111 | Management Analysts |
| 13-1131 | Fundraisers |
| 13-1141 | Compensation, Benefits, and Job Analysis Specialists |
| 13-1151 | Training and Development Specialists |
| 13-1161 | Market Research Analysts and Marketing Specialists |
| 13-1198 | Project Management Specialists and Business Operations Specialists, All Other |
| 13-2011 | Accountants and Auditors |
| 13-2021 | Property Appraisers and Assessors |
| 13-2031 | Budget Analysts |
| 13-2041 | Credit Analysts |
| 13-2052 | Personal Financial Advisors |
| 13-2053 | Insurance Underwriters |
| 13-2061 | Financial Examiners |
| 13-2071 | Credit Counselors |
| 13-2072 | Loan Officers |
| 13-2081 | Tax Examiners and Collectors, and Revenue Agents |
| 13-2082 | Tax Preparers |
| 13-2098 | Financial and Investment Analysts, Financial Risk Specialists, and Financial Specialists, All Other |
| 15-2011 | Actuaries |
| 15-2021 | Mathematicians Constitute Process As A |
| 15-2031 | Operations Research Analysts |
| 15-2041 | Statisticians |
| 19-3011 23-1011 | Economists |
| 23-1011 | Lawyers |
| | Paralegals and Legal Assistants |
| 39-4011 | Embalmers Funeral Attendants |
| 39-4021 | |
| 39-4031 39-5011 | Morticians, Undertakers, and Funeral Arrangers Barbers |
| 39-5012 | |
| 39-5092 | Hairdressers, Hairstylists, and Cosmetologists Manicurists and Pedicurists |
| 39-5094 | Skincare Specialists |
| 39-9098 | Crematory Operators and Personal Care and Service Workers, All Other |
| 41-2022 | Parts Salespersons |
| 41-2022 | i ans saicspeisons |

| SOC Code | SOC Title Business and Entrepreneurship |
|----------|--|
| 41-3011 | Advertising Sales Agents |
| 41-3021 | Insurance Sales Agents |
| 41-3031 | Securities, Commodities, and Financial Services Sales Agents |
| 41-3091 | Sales Representatives of Services, Except Advertising, Insurance, Financial Services, and Travel |
| 41-4012 | Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products |
| 41-9021 | Real Estate Brokers |
| 41-9022 | Real Estate Sales Agents |
| 41-9031 | Sales Engineers |
| 41-9041 | Telemarketers |
| 41-9091 | Door-to-Door Sales Workers, News and Street Vendors, and Related Workers |
| 41-9099 | Sales and Related Workers, All Other |
| 43-1011 | First-Line Supervisors of Office and Administrative Support Workers |
| 43-3011 | Bill and Account Collectors |
| 43-3021 | Billing and Posting Clerks |
| 43-3031 | Bookkeeping, Accounting, and Auditing Clerks |
| 43-3051 | Payroll and Timekeeping Clerks |
| 43-3061 | Procurement Clerks |
| 43-3071 | Tellers |
| 43-3099 | Financial Clerks, All Other |
| 43-4011 | Brokerage Clerks |
| 43-4021 | Correspondence Clerks |
| 43-4041 | Credit Authorizers, Checkers, and Clerks |
| 43-4051 | Customer Service Representatives |
| 43-4071 | File Clerks |
| 43-4131 | Loan Interviewers and Clerks |
| 43-4141 | New Accounts Clerks |
| 43-4151 | Order Clerks |
| 43-4161 | Human Resources Assistants, Except Payroll and Timekeeping |
| 43-4171 | Receptionists and Information Clerks |
| 43-4199 | Information and Record Clerks, All Other |
| 43-6011 | Executive Secretaries and Executive Administrative Assistants |
| 43-6012 | Legal Secretaries and Administrative Assistants |
| 43-6014 | Secretaries and Administrative Assistants, Except Legal, Medical, and Executive |
| 43-9041 | Insurance Claims and Policy Processing Clerks |
| 43-9051 | Mail Clerks and Mail Machine Operators, Except Postal Service |
| 43-9061 | Office Clerks, General |
| 43-9071 | Office Machine Operators, Except Computer |
| 43-9199 | Office and Administrative Support Workers, All Other |
| 51-6011 | Laundry and Dry-Cleaning Workers |
| 51-6021 | Pressers, Textile, Garment, and Related Materials |

EDUCATION AND HUMAN DEVELOPMENT

| SOC Code | SOC Title |
|----------|---|
| 19-3031 | Clinical, Counseling, and School Psychologists |
| 19-3032 | Industrial-Organizational Psychologists |
| 21-1012 | Educational, Guidance, and Career Counselors and Advisors |
| 21-1019 | Counselors, All Other |
| 21-1021 | Child, Family, and School Social Workers |
| 21-1029 | Social Workers, All Other |
| 21-1091 | Health Education Specialists |
| 21-1099 | Community and Social Service Specialists, All Other |
| 25-1099 | Postsecondary Teachers |
| 25-2011 | Preschool Teachers, Except Special Education |
| 25-2012 | Kindergarten Teachers, Except Special Education |

| SOC Code | SOC Title Education and Human Development |
|----------|--|
| 25-2021 | Elementary School Teachers, Except Special Education |
| 25-2022 | Middle School Teachers, Except Special and Career/Technical Education |
| 25-2023 | Career/Technical Education Teachers, Middle School |
| 25-2031 | Secondary School Teachers, Except Special and Career/Technical Education |
| 25-2032 | Career/Technical Education Teachers, Secondary School |
| 25-2051 | Special Education Teachers, Preschool |
| 25-2052 | Special Education Teachers, Kindergarten and Elementary School |
| 25-2057 | Special Education Teachers, Middle School |
| 25-2058 | Special Education Teachers, Secondary School |
| 25-2059 | Special Education Teachers, All Other |
| 25-3011 | Adult Basic Education, Adult Secondary Education, and English as a Second Language Instructors |
| 25-3021 | Self-Enrichment Teachers |
| 25-3031 | Substitute Teachers, Short-Term |
| 25-3097 | Tutors and Teachers and Instructors, All Other |
| 25-9044 | Teaching Assistants, Postsecondary |
| 25-9031 | Instructional Coordinators |
| 25-9045 | Teaching Assistants, Except Postsecondary |
| 25-9099 | Educational Instruction and Library Workers, All Other |
| 39-9011 | Childcare Workers |
| | |

ENERGY, CONSTRUCTION, AND UTILITIES

| SOC Code | SOC Title |
|----------|--|
| 17-1011 | Architects, Except Landscape and Naval |
| 17-1012 | Landscape Architects |
| 17-1022 | Surveyors |
| 17-2161 | Nuclear Engineers |
| 17-2171 | Petroleum Engineers |
| 17-3011 | Architectural and Civil Drafters |
| 17-3012 | Electrical and Electronics Drafters |
| 19-4045 | Geological and Hydrologic Technicians |
| 19-4051 | Nuclear Technicians |
| 43-5041 | Meter Readers, Utilities |
| 47-1011 | First-Line Supervisors of Construction Trades and Extraction Workers |
| 47-2011 | Boilermakers |
| 47-2021 | Brickmasons and Blockmasons |
| 47-2022 | Stonemasons |
| 47-2031 | Carpenters |
| 47-2041 | Carpet Installers |
| 47-2042 | Floor Layers, Except Carpet, Wood, and Hard Tiles |
| 47-2043 | Floor Sanders and Finishers |
| 47-2044 | Tile and Stone Setters |
| 47-2051 | Cement Masons and Concrete Finishers |
| 47-2053 | Terrazzo Workers and Finishers |
| 47-2061 | Construction Laborers |
| 47-2071 | Paving, Surfacing, and Tamping Equipment Operators |
| 47-2072 | Pile Driver Operators |
| 47-2073 | Operating Engineers and Other Construction Equipment Operators |
| 47-2081 | Drywall and Ceiling Tile Installers |
| 47-2082 | Tapers |
| 47-2111 | Electricians |
| 47-2121 | Glaziers |
| 47-2131 | Insulation Workers, Floor, Ceiling, and Wall |
| 47-2132 | Insulation Workers, Mechanical |
| 47-2141 | Painters, Construction and Maintenance |

| 47-2142 Paperhangers 47-2151 Pipelayers 47-2152 Plumbers, Pipefitters, and Steamfitters 47-2161 Plasterers and Stucco Masons 47-2171 Reinforcing Iron and Rebar Workers 47-2181 Roofers 47-2231 Solar Photovoltaic Installers 47-2311 Helpers-Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters 47-3012 Helpers-Carpenters 47-3012 Helpers-Carpenters 47-3013 Helpers-Pipelayers, Plumbers, Pipefitters, and Stucco Masons 47-3014 Helpers-Pipelayers, Plumbers, Pipefitters, and Steamfitters 47-3015 Helpers-Pipelayers, Plumbers, Pipefitters, and Steamfitters 47-3016 Helpers-Construction Trades, All Other 47-4011 Construction and Building Inspectors 47-4021 Elevator and Escalator Installers and Repairers 47-4021 Elevator and Escalator Installers and Repairers 47-4041 Hazardous Materials Removal Workers 47-4041 Hazardous Materials Removal Workers 47-4051 Rail-Track Laying and Maintenance Equipment Operators 47-4071 Septic Tank Servicers and Sewer Pipe Cleaners 47-4098 Miscellaneous Construction and Related Workers 49-2098 Security and Fire Alarm Systems Installers 49-9011 Mechanical Door Repairers 49-9021 Heating, Air Conditioning, and Refrigeration Mechanics and Installers 49-904 Millwrights 49-904 Millwrights 49-904 Millwrights 49-905 Manufactured Building and Mobile Home Installers 49-9096 Riggers 49-9099 Installation, Maintenance, and Repair Workers 49-9099 Installation, Maintenance, and Repair Workers, All Other 51-7031 Model Makers, Wood 51-7099 Woodworkers, All Other 51-8012 Power Distributors and Dispatchers 51-8013 Power Plant Operators 51-8019 Power Plant Operators 51-8019 Gos Plant Operators | SOC Code | SOC Title Energy, Construction, and Utilities |
|--|----------|---|
| 47-2151 Pipelayers 47-2152 Plumbers, Pipefitters, and Steamfitters 47-2171 Reinforcing Iron and Rebar Workers 47-2181 Roofers 47-2181 Roofers 47-2181 Solar Photovoltaic Installers 47-23011 Helpers-Erickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters 47-3012 Helpers-Carpenters 47-3013 Helpers-Edictricians 47-3014 Helpers-Pipelayers, Plumbers, Pipefitters, and Steamfitters 47-3015 Helpers-Pipelayers, Plumbers, Pipefitters, and Steamfitters 47-3016 Helpers-Postruction and Building Inspectors 47-3019 Helpers, Construction and Building Inspectors 47-4021 Elevator and Escalator Installers and Repairers 47-4031 Fence Erectors 47-4041 Hazardous Materials Removal Workers 47-4051 Highway Maintenance Workers 47-4071 Septic Tank Servicers and Sewer Pipe Cleaners 47-4071 Septic Tank Servicers and Sewer Pipe Cleaners 47-4071 Septic Tank Servicers and Sewer Pipe Cleaners 49-9011 Mechanical Door Repairers 49-9012 Control and Valve Installers and Repairers, Ex | | |
| 47-2152 Plumbers, Pipefitters, and Steamfitters 47-2101 Plasterers and Stucco Masons 47-2171 Reinforcing Iron and Rebar Workers 47-2181 Roofers 50slar Photovoltaic Installers 47-2231 Solar Photovoltaic Installers 47-3011 HelpersBrickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters 47-3012 HelpersCarpenters 47-3013 HelpersElectricians 47-3014 HelpersPainters, Paperhangers, Plasterers, and Stucco Masons 47-3015 HelpersPainters, Paperhangers, Plasterers, and Steamfitters 47-3016 HelpersRoofers 47-3016 HelpersRoofers 47-3017 HelpersRoofers 47-3019 Helpers, Construction Trades, All Other 47-4011 Construction and Building Inspectors 47-4021 Elevator and Escalator Installers and Repairers 47-4021 Elevator and Escalator Installers and Repairers 47-4041 Hazardous Materials Removal Workers 47-4041 Hazardous Materials Removal Workers 47-4051 Rail-Track Laying and Maintenance Equipment Operators 47-4071 Septic Tank Servicers and Sewer Pipe Cleaners 47-4098 Miscellaneous Construction and Related Workers 49-2098 Security and Fire Alarm Systems Installers 49-9011 Mechanical Door Repairers 49-9012 Control and Valve Installers and Repairers, Except Mechanical Door 49-9021 Heating, Air Conditioning, and Refrigeration Mechanics and Installers 49-9043 Maintenance Workers, Machinery 49-9044 Millwrights 49-9045 Refractory Materials Repairers, Except Brickmasons 49-9096 Riggers 49-9098 HelpersInstallation, Maintenance, and Repair Workers 49-9099 Installation, Maintenance, and Repair Workers 49-9099 Installation, Maintenance, and Repair Workers 49-9099 Power Distributors and Dispatchers 51-7032 Power Distributors and Dispatchers 51-8013 Power Plant Operators | | |
| 47-2161 Plasterers and Stucco Masons 47-2171 Reinforcing Iron and Rebar Workers 47-2181 Roofers 47-2231 Solar Photovoltaic Installers 47-3011 HelpersBrickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters 47-3012 HelpersCarpenters 47-3013 HelpersCarpenters 47-3013 HelpersPickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters 47-3014 HelpersPainters, Paperhangers, Plasterers, and Stucco Masons 47-3015 HelpersPipclayers, Plumbers, Pipefitters, and Steamfitters 47-3016 HelpersRoofers 47-3017 Helpers, Construction Trades, All Other 47-3019 Helpers, Construction and Building Inspectors 47-4021 Elevator and Escalator Installers and Repairers 47-4021 Elevator and Escalator Installers and Repairers 47-4031 Fence Erectors 47-40401 Hazardous Materials Removal Workers 47-4051 Highway Maintenance Workers 47-4061 Rail-Track Laying and Maintenance Equipment Operators 47-4071 Septic Tank Servicers and Sewer Pipe Cleaners 47-4098 Miscellaneous Construction and Related Workers 49-2098 Security and Fire Alarm Systems Installers 49-9011 Mechanical Door Repairers 49-9012 Control and Valve Installers and Repairers, Except Mechanical Door 49-9021 Heating, Air Conditioning, and Refrigeration Mechanics and Installers 49-9044 Millwrights 49-9045 Refractory Materials Repairers, Except Brickmasons 49-9096 Riggers 49-9096 Riggers 49-9097 Manufactured Building and Mobile Home Installers 49-9098 HelpersInstallation, Maintenance, and Repair Workers 49-9099 Installation, Maintenance, and Repair Workers 49-9099 Installation, Maintenance, and Repair Workers 49-9099 Pattermakers, Wood 51-7032 Pattermakers, Wood 51-7032 Power Plant Operators 51-8013 Power Plant Operators | | |
| 47-2171 Reinforcing Iron and Rebar Workers 47-2181 Roofers 47-2231 Solar Photovoltaic Installers 47-3011 HelpersBrickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters 47-3012 HelpersCarpenters 47-3013 HelpersEletricians 47-3014 HelpersPainters, Paperhangers, Plasterers, and Stucco Masons 47-3015 HelpersPainters, Paperhangers, Plosterers, and Stucco Masons 47-3016 HelpersPointers 47-3017 HelpersRoofers 47-3019 Helpers-Roofers 47-3019 Helpers, Construction Trades, All Other 47-4011 Construction and Building Inspectors 47-4021 Elevator and Escalator Installers and Repairers 47-4031 Fence Erectors 47-4041 Hazardous Materials Removal Workers 47-4041 Hazardous Materials Removal Workers 47-4051 Reil-Track Loying and Maintenance Equipment Operators 47-4061 Rail-Track Loying and Maintenance Equipment Operators 47-4071 Septic Tank Servicers and Sewer Pipe Cleaners 47-4098 Miscellaneous Construction and Related Workers 49-2098 Security and Fire Alarm Systems Installers 49-9011 Mechanical Door Repairers 49-9021 Heating, Air Conditioning, and Refrigeration Mechanical Door 49-9043 Maintenance Workers, Machinery 49-9044 Millwrights 49-9045 Refractory Materials Repairers, Except Brickmasons 49-9096 Riggers 49-9096 Riggers 49-9097 Monufactured Building and Mobile Home Installers 49-9099 Installation, Maintenance, and Repair Workers 49-9099 Installation, Maintenance, and Repair Workers 49-9099 Installation, Maintenance, and Repair Workers, All Other 51-7031 Model Makers, Wood 51-7032 Pattermakers, Wood 51-7039 Woodworkers, All Other 51-8011 Nuclear Power Reactor Operators 51-8013 Power Plant Operators | | |
| 47-2181 Roofers 47-2231 Solar Photovoltaic Installers 47-3011 Helpers-Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters 47-3012 Helpers-Carpenters 47-3013 Helpers-Electricians 47-3014 Helpers-Painters, Paperhangers, Plasterers, and Stucco Masons 47-3015 Helpers-Pointers, Paperhangers, Plosterers, and Steamfitters 47-3016 Helpers-Construction Trades, All Other 47-3019 Helpers, Construction Trades, All Other 47-4011 Construction and Building Inspectors 47-4021 Elevator and Escalator Installers and Repairers 47-4031 Fence Erectors 47-4041 Hazardous Materials Removal Workers 47-4051 Highway Maintenance Workers 47-4061 Rail-Track Laying and Maintenance Equipment Operators 47-4071 Septic Tank Servicers and Sewer Pipe Cleaners 47-2098 Miscellaneous Construction and Related Workers 49-9011 Mechanical Door Repairers 49-9012 Control and Valve Installers and Repairers, Except Mechanical Door 49-9024 Heating, Air Conditioning, and Refrigeration Mechanics and Installers 49-9045 Refractory Materials Re | | |
| 47-2231 Solar Photovoltaic Installers 47-3011 HelpersBrickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters 47-3012 HelpersCarpenters 47-3013 HelpersElectricians 47-3014 HelpersElectricians 47-3015 HelpersPipelayers, Plambers, Pipefitters, and Stucco Masons 47-3016 HelpersPointers, Plambers, Pipefitters, and Steamfitters 47-3019 Helpers-Rooffers 47-3019 Helpers, Construction Trades, All Other 47-4011 Construction and Building Inspectors 47-4021 Elevator and Escalator Installers and Repairers 47-4031 Fence Erectors 47-4041 Hazardous Materials Removal Workers 47-4041 Hazardous Materials Removal Workers 47-4051 Highway Maintenance Workers 47-4061 Rail-Track Laying and Maintenance Equipment Operators 47-4071 Septic Tank Servicers and Sewer Pipe Cleaners 47-4098 Miscellaneous Construction and Related Workers 49-2098 Security and Fire Alarm Systems Installers 49-9011 Mechanical Door Repairers 49-9012 Control and Valve Installers and Repairers, Except Mechanical Door 49-9021 Heating, Air Conditioning, and Refrigeration Mechanics and Installers 49-9043 Maintenance Workers, Machinery 49-9044 Millwrights 49-9045 Refractory Materials Repairers, Except Brickmasons 49-9096 Riggers 49-9097 Manufactured Building and Mobile Home Installers 49-9098 HelpersInstallation, Maintenance, and Repair Workers 49-9099 Installation, Maintenance, and Repair Workers 49-9099 Installation, Maintenance, and Repair Workers 49-9099 Installation, Maintenance, and Repair Workers, All Other 51-7031 Model Makers, Wood 51-7039 Woodworkers, All Other 51-8011 Power Distributors and Dispatchers 51-8013 Power Plant Operators 51-8013 Power Plant Operators | | • |
| 47-3011 HelpersCarpenters 47-3012 HelpersCarpenters 47-3013 HelpersClearticians 47-3014 HelpersElectricians 47-3015 HelpersPainters, Paperhangers, Plasterers, and Stucco Masons 47-3016 HelpersPipelayers, Plumbers, Pipefitters, and Steamfitters 47-3017 HelpersRoofers 47-3019 HelpersRoofers 47-3010 Construction Trades, All Other 47-4011 Construction and Building Inspectors 47-4021 Elevator and Escalator Installers and Repairers 47-4021 Elevator and Escalator Installers and Repairers 47-4041 Hazardous Materials Removal Workers 47-4051 Highway Maintenance Workers 47-4061 Rail-Track Laying and Maintenance Equipment Operators 47-4071 Septic Tank Servicers and Sewer Pipe Cleaners 47-408 Miscellaneous Construction and Related Workers 49-2098 Security and Fire Alarm Systems Installers 49-9011 Mechanical Door Repairers 49-9012 Control and Valve Installers and Repairers, Except Mechanical Door 49-9021 Heating, Air Conditioning, and Refrigeration Mechanics and Installers 49-9043 Maintenance Workers, Machinery 49-9044 Millwrights 49-9045 Refractory Materials Repairers, Except Brickmasons 49-9095 Manufactured Building and Mobile Home Installers 49-9096 Riggers 49-9099 Installation, Maintenance, and Repair Workers, All Other 51-7031 Model Makers, Wood 51-7099 Woodworkers, All Other 51-8011 Nuclear Power Reactor Operators 51-8013 Power Plant Operators 51-8013 Power Plant Operators | | |
| 47-3012 HelpersCarpenters 47-3013 HelpersElectricians 47-3014 HelpersPainters, Paperhangers, Plasterers, and Stucco Masons 47-3015 HelpersPainters, Paperhangers, Plasterers, and Stucco Masons 47-3016 HelpersRopfers 47-3016 HelpersRopfers 47-3019 Helpers, Construction Trades, All Other 47-4011 Construction and Building Inspectors 47-4021 Elevator and Escalator Installers and Repairers 47-4031 Fence Erectors 47-4031 Hazardous Materials Removal Workers 47-4041 Hazardous Materials Removal Workers 47-4051 Highway Maintenance Workers 47-4061 Rail-Track Laying and Maintenance Equipment Operators 47-4071 Septic Tank Servicers and Sewer Pipe Cleaners 47-4098 Miscellaneous Construction and Related Workers 49-2098 Security and Fire Alarm Systems Installers 49-9011 Mechanical Door Repairers 49-9012 Control and Valve Installers and Repairers, Except Mechanical Door 49-9021 Heating, Air Conditioning, and Refrigeration Mechanics and Installers 49-9043 Maintenance Workers, Machinery 49-9044 Millwrights 49-9045 Refractory Materials Repairers, Except Brickmasons 49-9098 Riggers 49-9098 HelpersInstallation, Maintenance, and Repair Workers 49-9099 Installation, Maintenance, and Repair Workers 49-9099 Installation, Maintenance, and Repair Workers, All Other 51-7031 Model Makers, Wood 51-7099 Woodworkers, All Other 51-7099 Power Plant Operators 51-8013 Power Plant Operators 51-8013 Power Plant Operators | | |
| 47-3013 HelpersElectricians 47-3014 HelpersPainters, Paperhangers, Plasterers, and Stucco Masons 47-3015 HelpersPipelayers, Plumbers, Pipefitters, and Steamfitters 47-3016 HelpersRoofers 47-3019 Helpers, Construction Trades, All Other 47-4011 Construction and Building Inspectors 47-4021 Elevator and Escalator Installers and Repairers 47-4021 Elevator and Escalator Installers and Repairers 47-4041 Hazardous Materials Removal Workers 47-4051 Highway Maintenance Workers 47-4061 Rail-Track Laying and Maintenance Equipment Operators 47-4071 Septic Tank Servicers and Sewer Pipe Cleaners 47-4098 Miscellaneous Construction and Related Workers 49-2098 Security and Fire Alarm Systems Installers 49-9011 Mechanical Door Repairers 49-9012 Control and Valve Installers and Repairers, Except Mechanical Door 49-9021 Heating, Air Conditioning, and Refrigeration Mechanics and Installers 49-9043 Maintenance Workers, Machinery 49-9044 Millwrights 49-9045 Refractory Materials Repairers, Except Brickmasons 49-9095 Manufactured Building and Mobile Home Installers 49-9096 Riggers 49-9099 Installation, Maintenance, and Repair Workers 49-9099 Installation, Maintenance, and Repair Workers 49-9099 Installation, Maintenance, and Repair Workers 49-9099 Woodworkers, All Other 51-7031 Model Makers, Wood 51-7032 Pattermakers, Wood 51-7099 Woodworkers, All Other 51-8011 Nuclear Power Reactor Operators 51-8013 Power Plant Operators 51-8013 Power Plant Operators | | |
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| 51-8093 Petroleum Pump System Operators, Refinery Operators, and Gaugers | | |
| 51-8099 Plant and System Operators, All Other | | |
| 53-7073 Wellhead Pumpers | | • • • |
| 53-7081 Refuse and Recyclable Material Collectors | | • |

HEALTH CARE

| SOC Code | SOC Title |
|----------|--|
| 11-9111 | Medical and Health Services Managers |
| 11-9151 | Social and Community Service Managers |
| 19-1042 | Medical Scientists, Except Epidemiologists |
| 19-3039 | Psychologists, All Other |
| 21-1013 | Marriage and Family Therapists |
| 21-1015 | Rehabilitation Counselors |

| SOC Code | SOC Title Health | ı Care |
|----------|--|---------|
| 21-1018 | Substance Abuse, Behavioral Disorder, and Mental Health Counselors | |
| 21-1022 | Healthcare Social Workers | |
| 21-1023 | Mental Health and Substance Abuse Social Workers | |
| 21-1093 | Social and Human Service Assistants | |
| 21-1094 | Community Health Workers | |
| 29-1011 | Chiropractors | |
| 29-1021 | Dentists, General | |
| 29-1022 | Oral and Maxillofacial Surgeons | |
| 29-1023 | Orthodontists | |
| 29-1024 | Prosthodontists | |
| 29-1029 | Dentists, All Other Specialists | |
| 29-1031 | Dietitians and Nutritionists | |
| 29-1041 | Optometrists | |
| 29-1051 | Pharmacists | |
| 29-1211 | Anesthesiologists | |
| 29-1215 | Family Medicine Physicians | |
| 29-1216 | General Internal Medicine Physicians | |
| 29-1218 | Obstetricians and Gynecologists | |
| 29-1221 | Pediatricians, General | |
| 29-1223 | Psychiatrists | |
| 29-1071 | Physician Assistants | |
| 29-1081 | Podiatrists | |
| 29-1122 | Occupational Therapists | |
| 29-1123 | Physical Therapists | |
| 29-1124 | Radiation Therapists | |
| 29-1125 | Recreational Therapists | |
| 29-1126 | Respiratory Therapists | |
| 29-1127 | Speech-Language Pathologists | |
| 29-1128 | Exercise Physiologists | |
| 29-1129 | Therapists, All Other | |
| 29-1141 | Registered Nurses | |
| 29-1151 | Nurse Anesthetists | |
| 29-1161 | Nurse Midwives | |
| 29-1171 | Nurse Practitioners | |
| 29-1181 | Audiologists | |
| 29-1228 | Physicians, All Other; and Ophthalmologists, Except Pediatric | |
| 29-1248 | Surgeons, Except Ophthalmologists | |
| 29-1298 | Acupuncturists and Healthcare Diagnosing or Treating Practitioners, All Other | |
| 29-2018 | Clinical Laboratory Technologists and Technicians | |
| 29-1292 | Dental Hygienists | |
| 29-2031 | Cardiovascular Technologists and Technicians | |
| 29-2032 | Diagnostic Medical Sonographers | |
| 29-2033 | Nuclear Medicine Technologists | |
| 29-2034 | Radiologic Technologists and Technicians | |
| 29-2035 | Magnetic Resonance Imaging Technologists | |
| 29-2041 | Emergency Medical Technicians and Paramedics | |
| 29-2051 | Dietetic Technicians | |
| | | |
| 29-2052 | Pharmacy Technicians Psychiatric Technicians | |
| 29-2053 | , | |
| 29-2055 | Surgical Technologists | |
| 29-2057 | Ophthalmic Medical Technicians | |
| 29-2061 | Licensed Practical and Licensed Vocational Nurses | |
| 29-2081 | Opticians, Dispensing | |
| 29-2091 | Orthotists and Prosthetists | |
| 29-2092 | Hearing Aid Specialists | |
| 29-2098 | Medical Dosimetrists, Medical Records Specialists, and Health Technologists and Technicians, Al Other | .II |
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| SOC Code | SOC Title Health Car |
|----------|---|
| 29-9098 | Health Information Technologists, Medical Registrars, Surgical Assistants, and Healthcare |
| 27-7070 | Practitioners and Technical Workers, |
| 31-1128 | Home Health and Personal Care Aides |
| 19-5011 | Occupational Health and Safety Specialists |
| 19-5012 | Occupational Health and Safety Technicians |
| 29-9091 | Athletic Trainers |
| 29-9092 | Genetic Counselors |
| 31-1133 | Psychiatric Aides |
| 31-1131 | Nursing Assistants |
| 31-1132 | Orderlies |
| 31-2011 | Occupational Therapy Assistants |
| 31-2012 | Occupational Therapy Aides |
| 31-2021 | Physical Therapist Assistants |
| 31-2022 | Physical Therapist Aides |
| 31-9011 | Massage Therapists |
| 31-9091 | Dental Assistants |
| 31-9092 | Medical Assistants |
| 31-9093 | Medical Equipment Preparers |
| 31-9094 | Medical Transcriptionists |
| 31-9095 | Pharmacy Aides |
| 31-9097 | Phlebotomists |
| 31-9099 | Healthcare Support Workers, All Other |
| 39-9041 | Residential Advisors |
| 43-6013 | Medical Secretaries and Administrative Assistants |
| 51-9081 | Dental Laboratory Technicians |
| | |

ICT AND DIGITAL MEDIA

| SOC Code | SOC Title |
|------------------|---|
| 11-3021 | Computer and Information Systems Managers |
| 15-1221 | Computer and Information Research Scientists |
| 15-1211 | Computer Systems Analysts |
| 15-1212 | Information Security Analysts |
| 15-1251 | Computer Programmers |
| 15-1256 | Software Developers and Software Quality Assurance Analysts and Testers |
| 15-1257 | Web Developers and Digital Interface Designers |
| 15-1245 | Database Administrators and Architects |
| 15-1244 | Network and Computer Systems Administrators |
| 15-1241 | Computer Network Architects |
| 15-1232 | Computer User Support Specialists |
| 15-1231 | Computer Network Support Specialists |
| 15-1299 | Computer Occupations, All Other |
| 15-2098 | Data Scientists and Mathematical Science Occupations, All Other |
| 17-1021 | Cartographers and Photogrammetrists |
| 1 <i>7</i> -3031 | Surveying and Mapping Technicians |
| 19-3022 | Survey Researchers |
| 27-1014 | Special Effects Artists and Animators |
| 27-1021 | Commercial and Industrial Designers |
| 27-1024 | Graphic Designers |
| 27-2012 | Producers and Directors |
| 27-3011 | Broadcast Announcers and Radio Disc Jockeys |
| 27-3023 | News Analysts, Reporters, and Journalists |
| 27-3031 | Public Relations Specialists |
| 27-3041 | Editors |
| 27-3042 | Technical Writers |

| SOC Code | SOC Title ICT and Digital Media |
|----------|---|
| 27-3043 | Writers and Authors |
| 27-3091 | Interpreters and Translators |
| 27-3099 | Media and Communication Workers, All Other |
| 27-4011 | Audio and Video Technicians |
| 27-4012 | Broadcast Technicians |
| 27-4014 | Sound Engineering Technicians |
| 27-4031 | Camera Operators, Television, Video, and Film |
| 27-4032 | Film and Video Editors |
| 27-4098 | Lighting Technicians and Media and Communication Equipment Workers, All Other |
| 43-2011 | Switchboard Operators, Including Answering Service |
| 43-2021 | Telephone Operators |
| 43-2099 | Communications Equipment Operators, All Other |
| 43-4111 | Interviewers, Except Eligibility and Loan |
| 43-9021 | Data Entry Keyers |
| 43-9022 | Word Processors and Typists |
| 43-9031 | Desktop Publishers |
| 43-9081 | Proofreaders and Copy Markers |
| 43-9111 | Statistical Assistants |
| 49-2021 | Radio, Cellular, and Tower Equipment Installers and Repairers |
| 49-2022 | Telecommunications Equipment Installers and Repairers, Except Line Installers |
| 49-2097 | Audiovisual Equipment Installers and Repairers |
| 49-9051 | Electrical Power-Line Installers and Repairers |
| 49-9052 | Telecommunications Line Installers and Repairers |

LIFE SCIENCES AND BIOTECHNOLOGY

| SOC Code | SOC Title |
|------------------|---|
| 11-9121 | Natural Sciences Managers |
| 1 <i>7</i> -2031 | Bioengineers and Biomedical Engineers |
| 17-2041 | Chemical Engineers |
| 19-1021 | Biochemists and Biophysicists |
| 19-1022 | Microbiologists |
| 19-1023 | Zoologists and Wildlife Biologists |
| 19-1029 | Biological Scientists, All Other |
| 19-1031 | Conservation Scientists |
| 19-1041 | Epidemiologists |
| 19-1099 | Life Scientists, All Other |
| 19-2012 | Physicists |
| 19-2031 | Chemists |
| 19-2032 | Materials Scientists |
| 19-4021 | Biological Technicians |
| 19-4031 | Chemical Technicians |
| 19-4061 | Social Science Research Assistants |
| 19-4092 | Forensic Science Technicians |
| 19-4099 | Life, Physical, and Social Science Technicians, All Other |
| 41-4011 | Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products |
| 49-9062 | Medical Equipment Repairers |
| 51-8091 | Chemical Plant and System Operators |
| 51-9011 | Chemical Equipment Operators and Tenders |
| 51-9061 | Inspectors, Testers, Sorters, Samplers, and Weighers |
| 51-9082 | Medical Appliance Technicians |
| 51-9083 | Ophthalmic Laboratory Technicians |

PUBLIC SAFETY AND GOVERNMENT

| SOC Code | SOC Title |
|----------|---|
| 11-1031 | Legislators |
| 11-9131 | Postmasters and Mail Superintendents |
| 19-3051 | Urban and Regional Planners |
| | • |
| 19-3094 | Political Scientists |
| 19-3099 | Social Scientists and Related Workers, All Other |
| 21-1092 | Probation Officers and Correctional Treatment Specialists |
| 23-1012 | Judicial Law Clerks |
| 23-1021 | Administrative Law Judges, Adjudicators, and Hearing Officers |
| 23-1022 | Arbitrators, Mediators, and Conciliators |
| 23-1023 | Judges, Magistrate Judges, and Magistrates |
| 23-2093 | Title Examiners, Abstractors, and Searchers |
| 23-2099 | Legal Support Workers, All Other |
| 25-4022 | Librarians and Media Collections Specialists |
| 25-4031 | Library Technicians |
| 27-3092 | Court Reporters and Simultaneous Captioners |
| 33-1011 | First-Line Supervisors of Correctional Officers |
| 33-1012 | First-Line Supervisors of Police and Detectives |
| 33-1021 | First-Line Supervisors of Firefighting and Prevention Workers |
| 33-2011 | Firefighters |
| 33-2021 | Fire Inspectors and Investigators |
| 33-2022 | Forest Fire Inspectors and Prevention Specialists |
| 33-3011 | Bailiffs |
| 33-3012 | Correctional Officers and Jailers |
| 33-3021 | Detectives and Criminal Investigators |
| 33-3031 | Fish and Game Wardens |
| 33-3041 | Parking Enforcement Workers |
| 33-3051 | Police and Sheriffs Patrol Officers |
| 33-3052 | Transit and Railroad Police |
| 33-9011 | Animal Control Workers |
| 33-9021 | Private Detectives and Investigators |
| 33-9031 | Gambling Surveillance Officers and Gambling Investigators |
| 33-9032 | Security Guards |
| 33-9091 | Crossing Guards and Flaggers |
| 33-9092 | Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers |
| 33-9093 | Transportation Security Screeners |
| 33-9098 | School Bus Monitors and Protective Service Workers, All Other |
| 43-4031 | Court, Municipal, and License Clerks |
| 43-4061 | Eligibility Interviewers, Government Programs |
| 43-4121 | Library Assistants, Clerical |
| 43-5031 | Public Safety Telecommunicators |
| 43-5032 | Dispatchers, Except Police, Fire, and Ambulance |
| 43-5051 | Postal Service Clerks |
| 43-5052 | Postal Service Mail Carriers |
| 43-5053 | Postal Service Mail Sorters, Processors, and Processing Machine Operators |
| 55-9999 | Military-only occupations |
| 33-7777 | Military-only occupations |

RETAIL, HOSPITALITY, AND TOURISM

| SOC Code | SOC Title | |
|----------|---|--|
| | | |
| 11-9051 | Food Service Managers | |
| 11-9071 | Gambling Managers | |
| 11-9081 | Lodging Managers | |
| 11-9171 | Funeral Home Managers | |
| 13-1121 | Meeting, Convention, and Event Planners | |
| 25-4011 | Archivists | |
| 25-4012 | Curators | |
| 25-4013 | Museum Technicians and Conservators | |
| 27-1011 | Art Directors | |
| 27-1012 | Craft Artists | |
| 27-1013 | Fine Artists, Including Painters, Sculptors, and Illustrators | |
| 27-1019 | Artists and Related Workers, All Other | |
| 27-1022 | Fashion Designers | |
| 27-1025 | Interior Designers | |
| 27-1026 | Merchandise Displayers and Window Trimmers | |
| 27-1027 | Set and Exhibit Designers | |
| 27-1029 | Designers, All Other | |
| 27-2011 | Actors | |
| 27-2021 | Athletes and Sports Competitors | |
| 27-2022 | Coaches and Scouts | |
| 27-2023 | Umpires, Referees, and Other Sports Officials | |
| 27-2031 | Dancers | |
| 27-2032 | Choreographers | |
| 27-2041 | Music Directors and Composers | |
| 27-2042 | Musicians and Singers | |
| 27-2099 | Miscellaneous Entertainers and Performers, Sports and Related Workers | |
| 33-1099 | Miscellaneous First-Line Supervisors, Protective Service Workers | |
| 35-1011 | Chefs and Head Cooks | |
| 35-1012 | First-Line Supervisors of Food Preparation and Serving Workers | |
| 35-2011 | Cooks, Fast Food | |
| 35-2012 | Cooks, Institution and Cafeteria | |
| 35-2013 | Cooks, Private Household | |
| 35-2014 | Cooks, Restaurant | |
| 35-2015 | Cooks, Short Order | |
| 35-2019 | Cooks, All Other | |
| 35-2021 | Food Preparation Workers | |
| 35-3011 | Bartenders | |
| 35-3023 | Fast Food and Counter Workers | |
| 35-3031 | Waiters and Waitresses | |
| 35-3041 | Food Servers, Nonrestaurant | |
| 35-9011 | Dining Room and Cafeteria Attendants and Bartender Helpers | |
| 35-9021 | Dishwashers | |
| 35-9031 | Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop | |
| 35-9099 | Food Preparation and Serving Related Workers, All Other | |
| 37-1011 | First-Line Supervisors of Housekeeping and Janitorial Workers | |
| 37-2011 | Janitors and Cleaners, Except Maids and Housekeeping Cleaners | |
| 37-2012 | Maids and Housekeeping Cleaners | |
| 37-2019 | Building Cleaning Workers, All Other | |
| 39-1013 | First-Line Supervisors of Gambling Services Workers | |
| 39-1098 | First-Line Supervisors of Personal Service and Entertainment and Recreation Workers, Except | |
| | Gambling Services | |
| 39-2011 | Animal Trainers | |
| 39-2021 | Animal Caretakers | |
| 39-3011 | Gambling Dealers | |

| 39-3012 Gambling and Sports Book Writers and Runners 39-3019 Gambling Service Workers, All Other 39-3021 Motion Picture Projectionists 39-3031 Ushers, Lobby Attendants, and Ticket Takers 39-3091 Amusement and Recreation Attendants 39-3092 Costume Attendants 39-3093 Locker Room, Coatroom, and Dressing Room Attendants 39-3099 Entertainment Attendants and Related Workers, All Other 39-5093 Shampooers 39-6011 Baggage Porters and Bellhops 39-6012 Concierges 39-7018 Tour and Travel Guides 39-9031 Exercise Trainers and Group Fitness Instructors 39-9032 Recreation Workers 41-1011 First-Line Supervisors of Retail Sales Workers 41-2011 Cashiers 41-2011 Cashiers 41-2021 Gambling Change Persons and Booth Cashiers 41-2021 Counter and Rental Clerks 41-2031 Retail Salespersons 41-9011 Demonstrators and Product Promoters 41-9011 Demonstrators and Product Promoters 41-9012 Models 43-3041 Gambling Cage Workers 43-4081 Hotel, Motel, and Resort Desk Clerks 43-4081 Hotel, Motel, and Resort Desk Cl | SOC Code | SOC Title | Retail, Hospitality, and Tourism |
|---|----------|---|----------------------------------|
| 39-3021 Motion Picture Projectionists 39-3031 Ushers, Lobby Attendants, and Ticket Takers 39-3091 Amusement and Recreation Attendants 39-3092 Costume Attendants 39-3093 Locker Room, Coatroom, and Dressing Room Attendants 39-3099 Entertainment Attendants and Related Workers, All Other 39-5091 Makeup Artists, Theatrical and Performance 39-5093 Shampooers 39-6011 Baggage Porters and Bellhops 39-6012 Concierges 39-7018 Tour and Travel Guides 39-9031 Exercise Trainers and Group Fitness Instructors 39-9032 Recreation Workers 41-1011 First-Line Supervisors of Retail Sales Workers 41-1011 First-Line Supervisors of Non-Retail Sales Workers 41-2012 Gambling Change Persons and Booth Cashiers 41-2011 Coshiers 41-2021 Counter and Rental Clerks 41-2031 Retail Salespersons 41-3041 Travel Agents 41-9011 Demonstrators and Product Promoters 41-9011 Models 43-3041 Gambling Cage Workers 43-4081 Hotel, Motel, and Resort Desk Clerks 49-3091 Bicycle Repairers 49-9091 Coin, Vending, and Amusement Machine Servicers and Repairers 49-9091 Coin, Vending, and Amusement Machine Servicers and Repairers 51-3021 Butchers and Meat Cutters 51-3021 Butchers and Watercraft Service Attendants | 39-3012 | Gambling and Sports Book Writers and Runners | |
| 39-3031 Ushers, Lobby Attendants, and Ticket Takers 39-3091 Amusement and Recreation Attendants 39-3092 Costume Attendants 39-3093 Locker Room, Coatroom, and Dressing Room Attendants 39-3099 Entertainment Attendants and Related Workers, All Other 39-5091 Makeup Artists, Theatrical and Performance 39-5091 Makeup Artists, Theatrical and Performance 39-6011 Baggage Porters and Bellhops 39-6012 Concierges 39-6012 Concierges 39-7018 Tour and Travel Guides 39-9031 Exercise Trainers and Group Fitness Instructors 39-9032 Recreation Workers 41-1011 First-Line Supervisors of Retail Sales Workers 41-1012 First-Line Supervisors of Non-Retail Sales Workers 41-2011 Cashiers 41-2012 Gambling Change Persons and Booth Cashiers 41-2021 Counter and Rental Clerks 41-2031 Retail Salespersons 41-3041 Travel Agents 41-9011 Demonstrators and Product Promoters 41-9011 Demonstrators and Product Promoters 41-9011 Models 43-3041 Gambling Cage Workers 43-4081 Hotel, Motel, and Resort Desk Clerks 43-4181 Reservation and Transportation Ticket Agents and Travel Clerks 49-3091 Bicycle Repairers 49-9092 Commercial Divers 51-3021 Butchers and Meat Cutters 51-3021 Butchers and Meat Cutters 51-6052 Tailors, Dressmakers, and Custom Sewers 53-6031 Automotive and Watercraft Service Attendants | 39-3019 | Gambling Service Workers, All Other | |
| 39-3091 Amusement and Recreation Attendants 39-3092 Costume Attendants 39-3093 Locker Room, Coatroom, and Dressing Room Attendants 39-3099 Entertainment Attendants and Related Workers, All Other 39-5091 Makeup Artists, Theatrical and Performance 39-5093 Shampooers 39-6012 Concierges 39-6012 Concierges 39-7018 Tour and Travel Guides 39-9031 Exercise Trainers and Group Fitness Instructors 39-9032 Recreation Workers 41-1011 First-Line Supervisors of Retail Sales Workers 41-1012 First-Line Supervisors of Non-Retail Sales Workers 41-2011 Cashiers 41-2021 Counter and Rental Clerks 41-2031 Retail Salespersons 41-3041 Travel Agents 41-9012 Models 43-3041 Gambling Cage Workers 43-4081 Hotel, Motel, and Resort Desk Clerks 49-3091 Bicycle Repairers 49-9091 Coin, Vending, and Amusement Machine Servicers and Repairers 49-9091 Coin, Vending, and Amusement Machine Servicers and Repairers 49-9092 Commercial Divers 51-3021 Butchers and Meat Cutters 51-6052 Tailors, Dressmakers, and Custom Sewers 53-6031 Automotive and Watercraft Service Attendants | 39-3021 | Motion Picture Projectionists | |
| 39-3092 Costume Attendants 39-3093 Locker Room, Coatroom, and Dressing Room Attendants 39-3099 Entertainment Attendants and Related Workers, All Other 39-5091 Makeup Artists, Theatrical and Performance 39-5093 Shampooers 39-5091 Baggage Porters and Bellhops 39-6011 Baggage Porters and Bellhops 39-6012 Concierges 39-7018 Tour and Travel Guides 39-9031 Exercise Trainers and Group Fitness Instructors 39-9032 Recreation Workers 41-1011 First-Line Supervisors of Retail Sales Workers 41-1012 First-Line Supervisors of Non-Retail Sales Workers 41-2011 Cashiers 41-2011 Cashiers 41-2021 Counter and Rental Clerks 41-2031 Retail Salespersons 41-3041 Travel Agents 41-9011 Demonstrators and Product Promoters 41-9012 Models 43-3041 Gambling Cage Workers 43-4081 Hotel, Motel, and Resort Desk Clerks 43-4181 Reservation and Transportation Ticket Agents and Travel Clerks 49-3091 Bicycle Repairers 49-9092 Commercial Divers 51-3011 Bakers 51-3021 Butchers and Meat Cutters 51-6052 Tailors, Dressmakers, and Custom Sewers 53-6031 Automotive and Watercraft Service Attendants | 39-3031 | Ushers, Lobby Attendants, and Ticket Takers | |
| 39-3093 Locker Room, Coatroom, and Dressing Room Attendants 39-3099 Entertainment Attendants and Related Workers, All Other 39-5091 Makeup Artists, Theatrical and Performance 39-5093 Shampooers 39-6011 Baggage Porters and Bellhops 39-6012 Concierges 39-7018 Tour and Travel Guides 39-9031 Exercise Trainers and Group Fitness Instructors 39-9032 Recreation Workers 41-1011 First-Line Supervisors of Retail Sales Workers 41-1012 First-Line Supervisors of Non-Retail Sales Workers 41-2011 Cashiers 41-2021 Gambling Change Persons and Booth Cashiers 41-2031 Retail Salespersons 41-3041 Travel Agents 41-9011 Demonstrators and Product Promoters 41-9012 Models 43-3041 Gambling Cage Workers 43-4081 Hotel, Motel, and Resort Desk Clerks 49-3091 Bicycle Repairers 49-9092 Commercial Divers 51-3011 Bakers 51-3021 Butchers and Meat Cutters 51-6052 Tailors, Dressmakers, and Custom Sewers 53-6031 Automotive and Watercraft Service Attendants | 39-3091 | Amusement and Recreation Attendants | |
| 39-3099 Entertainment Attendants and Related Workers, All Other 39-5091 Makeup Artists, Theatrical and Performance 39-5093 Shampooers 39-6011 Baggage Porters and Bellhops 39-6012 Concierges 39-7018 Tour and Travel Guides 39-9031 Exercise Trainers and Group Fitness Instructors 39-9032 Recreation Workers 41-1011 First-Line Supervisors of Retail Sales Workers 41-1012 First-Line Supervisors of Non-Retail Sales Workers 41-2011 Cashiers 41-2011 Cashiers 41-2021 Gambling Change Persons and Booth Cashiers 41-2031 Retail Salespersons 41-3041 Travel Agents 41-9011 Demonstrators and Product Promoters 41-9012 Models 43-3041 Gambling Cage Workers 43-4081 Hotel, Motel, and Resort Desk Clerks 43-4181 Reservation and Transportation Ticket Agents and Travel Clerks 49-3091 Bicycle Repairers 49-9092 Commercial Divers 51-3011 Bakers 51-3021 Butchers and Meat Cutters 51-6052 Tailors, Dressmakers, and Custom Sewers 53-6031 Automotive and Watercraft Service Attendants | 39-3092 | Costume Attendants | |
| 39-5091 Makeup Artists, Theatrical and Performance 39-5093 Shampooers 39-6011 Baggage Porters and Bellhops 39-6012 Concierges 39-7018 Tour and Travel Guides 39-7018 Tour and Travel Guides 39-9031 Exercise Trainers and Group Fitness Instructors 39-9032 Recreation Workers 41-1011 First-Line Supervisors of Retail Sales Workers 41-1012 First-Line Supervisors of Non-Retail Sales Workers 41-2011 Cashiers 41-2012 Gambling Change Persons and Booth Cashiers 41-2021 Counter and Rental Clerks 41-2031 Retail Salespersons 41-3041 Travel Agents 41-9011 Demonstrators and Product Promoters 41-9012 Models 43-3041 Gambling Cage Workers 43-4081 Hotel, Motel, and Resort Desk Clerks 43-4081 Hotel, Motel, and Resort Desk Clerks 43-4181 Reservation and Transportation Ticket Agents and Travel Clerks 49-9091 Coin, Vending, and Amusement Machine Servicers and Repairers 49-9092 Commercial Divers 51-3021 Butchers and Meat Cutters 51-6052 Tailors, Dressmakers, and Custom Sewers 53-6021 Parking Attendants | 39-3093 | Locker Room, Coatroom, and Dressing Room Attendants | |
| 39-5093 Shampooers 39-6011 Baggage Porters and Bellhops 39-6012 Conclerges 39-7018 Tour and Travel Guides 39-7018 Tour and Travel Guides 39-9031 Exercise Trainers and Group Fitness Instructors 39-9032 Recreation Workers 41-1011 First-Line Supervisors of Retail Sales Workers 41-1012 First-Line Supervisors of Non-Retail Sales Workers 41-2011 Cashiers 41-2011 Cashiers 41-2012 Gambling Change Persons and Booth Cashiers 41-2021 Counter and Rental Clerks 41-2031 Retail Salespersons 41-3041 Travel Agents 41-9011 Demonstrators and Product Promoters 41-9012 Models 43-3041 Gambling Cage Workers 43-4081 Hotel, Motel, and Resort Desk Clerks 43-4181 Reservation and Transportation Ticket Agents and Travel Clerks 49-3091 Bicycle Repairers 49-9091 Coin, Vending, and Amusement Machine Servicers and Repairers 49-9092 Commercial Divers 51-3021 Butchers and Meat Cutters 51-6052 Tailors, Dressmakers, and Custom Sewers 53-6021 Parking Attendants 53-6031 Automotive and Watercraft Service Attendants | 39-3099 | Entertainment Attendants and Related Workers, All Other | |
| 39-6011 Baggage Porters and Bellhops 39-6012 Concierges 39-7018 Tour and Travel Guides 39-9031 Exercise Trainers and Group Fitness Instructors 39-9032 Recreation Workers 41-1011 First-Line Supervisors of Retail Sales Workers 41-1012 First-Line Supervisors of Non-Retail Sales Workers 41-2011 Cashiers 41-2012 Gambling Change Persons and Booth Cashiers 41-2021 Counter and Rental Clerks 41-2031 Retail Salespersons 41-3041 Travel Agents 41-9011 Demonstrators and Product Promoters 41-9012 Models 43-3041 Gambling Cage Workers 43-4081 Hotel, Motel, and Resort Desk Clerks 43-4181 Reservation and Transportation Ticket Agents and Travel Clerks 49-3091 Bicycle Repairers 49-9092 Commercial Divers 51-3011 Bakers 51-3021 Butchers and Meat Cutters 51-6052 Tailors, Dressmakers, and Custom Sewers 53-6031 Automotive and Watercraft Service Attendants | 39-5091 | Makeup Artists, Theatrical and Performance | |
| 39-6012 Concierges 39-7018 Tour and Travel Guides 39-9031 Exercise Trainers and Group Fitness Instructors 39-9032 Recreation Workers 41-1011 First-Line Supervisors of Retail Sales Workers 41-1012 First-Line Supervisors of Non-Retail Sales Workers 41-2011 Cashiers 41-2012 Gambling Change Persons and Booth Cashiers 41-2021 Counter and Rental Clerks 41-2031 Retail Salespersons 41-3041 Travel Agents 41-9011 Demonstrators and Product Promoters 41-9012 Models 43-3041 Gambling Cage Workers 43-4081 Hotel, Motel, and Resort Desk Clerks 43-4181 Reservation and Transportation Ticket Agents and Travel Clerks 49-3091 Bicycle Repairers 49-9091 Coin, Vending, and Amusement Machine Servicers and Repairers 49-9092 Commercial Divers 51-3011 Backers 51-3021 Butchers and Meat Cutters 51-6052 Tailors, Dressmakers, and Custom Sewers 53-6031 Automotive and Watercraft Service Attendants | 39-5093 | Shampooers | |
| 39-7018 Tour and Travel Guides 39-9031 Exercise Trainers and Group Fitness Instructors 39-9032 Recreation Workers 41-1011 First-Line Supervisors of Retail Sales Workers 41-1012 First-Line Supervisors of Non-Retail Sales Workers 41-2011 Cashiers 41-2011 Gambling Change Persons and Booth Cashiers 41-2012 Gombling Change Persons and Booth Cashiers 41-2031 Retail Salespersons 41-3041 Travel Agents 41-9011 Demonstrators and Product Promoters 41-9012 Models 43-3041 Gambling Cage Workers 43-4081 Hotel, Motel, and Resort Desk Clerks 43-4181 Reservation and Transportation Ticket Agents and Travel Clerks 49-3091 Bicycle Repairers 49-9091 Coin, Vending, and Amusement Machine Servicers and Repairers 49-9092 Commercial Divers 51-3011 Bakers 51-3021 Butchers and Meat Cutters 51-6052 Tailors, Dressmakers, and Custom Sewers 53-6021 Parking Attendants | 39-6011 | Baggage Porters and Bellhops | |
| 39-9031 Exercise Trainers and Group Fitness Instructors 39-9032 Recreation Workers 41-1011 First-Line Supervisors of Retail Sales Workers 41-1012 First-Line Supervisors of Non-Retail Sales Workers 41-2011 Cashiers 41-2012 Gambling Change Persons and Booth Cashiers 41-2021 Counter and Rental Clerks 41-2031 Retail Salespersons 41-3041 Travel Agents 41-9011 Demonstrators and Product Promoters 41-9012 Models 43-3041 Gambling Cage Workers 43-4081 Hotel, Motel, and Resort Desk Clerks 43-4181 Reservation and Transportation Ticket Agents and Travel Clerks 49-3091 Bicycle Repairers 49-9091 Coin, Vending, and Amusement Machine Servicers and Repairers 49-9092 Commercial Divers 51-3021 Butchers and Meat Cutters 51-6052 Tailors, Dressmakers, and Custom Sewers 53-6021 Parking Attendants 53-6031 Automotive and Watercraft Service Attendants | 39-6012 | Concierges | |
| 39-9032 Recreation Workers 41-1011 First-Line Supervisors of Retail Sales Workers 41-1012 First-Line Supervisors of Non-Retail Sales Workers 41-2011 Cashiers 41-2012 Gambling Change Persons and Booth Cashiers 41-2021 Counter and Rental Clerks 41-2031 Retail Salespersons 41-3041 Travel Agents 41-9011 Demonstrators and Product Promoters 41-9012 Models 43-3041 Gambling Cage Workers 43-4081 Hotel, Motel, and Resort Desk Clerks 43-4181 Reservation and Transportation Ticket Agents and Travel Clerks 49-3091 Bicycle Repairers 49-9091 Coin, Vending, and Amusement Machine Servicers and Repairers 49-9092 Commercial Divers 51-3011 Bakers 51-3021 Butchers and Meat Cutters 51-6052 Tailors, Dressmakers, and Custom Sewers 53-6021 Parking Attendants 53-6031 Automotive and Watercraft Service Attendants | 39-7018 | | |
| 41-1011 First-Line Supervisors of Retail Sales Workers 41-1012 First-Line Supervisors of Non-Retail Sales Workers 41-2011 Cashiers 41-2012 Gambling Change Persons and Booth Cashiers 41-2021 Counter and Rental Clerks 41-2031 Retail Salespersons 41-3041 Travel Agents 41-9011 Demonstrators and Product Promoters 41-9012 Models 43-3041 Gambling Cage Workers 43-4081 Hotel, Motel, and Resort Desk Clerks 43-4181 Reservation and Transportation Ticket Agents and Travel Clerks 49-3091 Bicycle Repairers 49-9091 Coin, Vending, and Amusement Machine Servicers and Repairers 49-9092 Commercial Divers 51-3011 Bakers 51-3021 Butchers and Meat Cutters 51-6052 Tailors, Dressmakers, and Custom Sewers 53-6031 Automotive and Watercraft Service Attendants | 39-9031 | Exercise Trainers and Group Fitness Instructors | |
| 41-1012 First-Line Supervisors of Non-Retail Sales Workers 41-2011 Cashiers 41-2012 Gambling Change Persons and Booth Cashiers 41-2021 Counter and Rental Clerks 41-2031 Retail Salespersons 41-3041 Travel Agents 41-9011 Demonstrators and Product Promoters 41-9012 Models 43-3041 Gambling Cage Workers 43-4081 Hotel, Motel, and Resort Desk Clerks 43-4181 Reservation and Transportation Ticket Agents and Travel Clerks 49-3091 Bicycle Repairers 49-9091 Coin, Vending, and Amusement Machine Servicers and Repairers 49-9092 Commercial Divers 51-3011 Bakers 51-3021 Butchers and Meat Cutters 51-6052 Tailors, Dressmakers, and Custom Sewers 53-6021 Parking Attendants 53-6031 Automotive and Watercraft Service Attendants | 39-9032 | Recreation Workers | |
| 41-2011 Cashiers 41-2012 Gambling Change Persons and Booth Cashiers 41-2021 Counter and Rental Clerks 41-2031 Retail Salespersons 41-3041 Travel Agents 41-9011 Demonstrators and Product Promoters 41-9012 Models 43-3041 Gambling Cage Workers 43-4081 Hotel, Motel, and Resort Desk Clerks 43-4181 Reservation and Transportation Ticket Agents and Travel Clerks 49-3091 Bicycle Repairers 49-9091 Coin, Vending, and Amusement Machine Servicers and Repairers 49-9092 Commercial Divers 51-3011 Bakers 51-3021 Butchers and Meat Cutters 51-6052 Tailors, Dressmakers, and Custom Sewers 53-6031 Automotive and Watercraft Service Attendants | 41-1011 | | |
| 41-2012 Gambling Change Persons and Booth Cashiers 41-2021 Counter and Rental Clerks 41-2031 Retail Salespersons 41-3041 Travel Agents 41-9011 Demonstrators and Product Promoters 41-9012 Models 43-3041 Gambling Cage Workers 43-4081 Hotel, Motel, and Resort Desk Clerks 43-4181 Reservation and Transportation Ticket Agents and Travel Clerks 49-3091 Bicycle Repairers 49-9091 Coin, Vending, and Amusement Machine Servicers and Repairers 49-9092 Commercial Divers 51-3011 Bakers 51-3021 Butchers and Meat Cutters 51-6052 Tailors, Dressmakers, and Custom Sewers 53-6021 Parking Attendants 53-6031 Automotive and Watercraft Service Attendants | 41-1012 | First-Line Supervisors of Non-Retail Sales Workers | |
| 41-2021 Counter and Rental Clerks 41-2031 Retail Salespersons 41-3041 Travel Agents 41-9011 Demonstrators and Product Promoters 41-9012 Models 43-3041 Gambling Cage Workers 43-4081 Hotel, Motel, and Resort Desk Clerks 43-4181 Reservation and Transportation Ticket Agents and Travel Clerks 49-3091 Bicycle Repairers 49-9091 Coin, Vending, and Amusement Machine Servicers and Repairers 49-9092 Commercial Divers 51-3011 Bakers 51-3021 Butchers and Meat Cutters 51-6052 Tailors, Dressmakers, and Custom Sewers 53-6021 Parking Attendants 53-6031 Automotive and Watercraft Service Attendants | | | |
| 41-2031 Retail Salespersons 41-3041 Travel Agents 41-9011 Demonstrators and Product Promoters 41-9012 Models 43-3041 Gambling Cage Workers 43-4081 Hotel, Motel, and Resort Desk Clerks 43-4181 Reservation and Transportation Ticket Agents and Travel Clerks 49-3091 Bicycle Repairers 49-9091 Coin, Vending, and Amusement Machine Servicers and Repairers 49-9092 Commercial Divers 51-3011 Bakers 51-3021 Butchers and Meat Cutters 51-6052 Tailors, Dressmakers, and Custom Sewers 53-6021 Parking Attendants 53-6031 Automotive and Watercraft Service Attendants | | | |
| 41-3041 Travel Agents 41-9011 Demonstrators and Product Promoters 41-9012 Models 43-3041 Gambling Cage Workers 43-4081 Hotel, Motel, and Resort Desk Clerks 43-4181 Reservation and Transportation Ticket Agents and Travel Clerks 49-3091 Bicycle Repairers 49-9091 Coin, Vending, and Amusement Machine Servicers and Repairers 49-9092 Commercial Divers 51-3011 Bakers 51-3021 Butchers and Meat Cutters 51-6052 Tailors, Dressmakers, and Custom Sewers 53-6021 Parking Attendants 53-6031 Automotive and Watercraft Service Attendants | | Counter and Rental Clerks | |
| 41-9011 Demonstrators and Product Promoters 41-9012 Models 43-3041 Gambling Cage Workers 43-4081 Hotel, Motel, and Resort Desk Clerks 43-4181 Reservation and Transportation Ticket Agents and Travel Clerks 49-3091 Bicycle Repairers 49-9091 Coin, Vending, and Amusement Machine Servicers and Repairers 49-9092 Commercial Divers 51-3011 Bakers 51-3021 Butchers and Meat Cutters 51-6052 Tailors, Dressmakers, and Custom Sewers 53-6021 Parking Attendants 53-6031 Automotive and Watercraft Service Attendants | | · · · · · · · · · · · · · · · · · · · | |
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| 43-4081 Hotel, Motel, and Resort Desk Clerks 43-4181 Reservation and Transportation Ticket Agents and Travel Clerks 49-3091 Bicycle Repairers 49-9091 Coin, Vending, and Amusement Machine Servicers and Repairers 49-9092 Commercial Divers 51-3011 Bakers 51-3021 Butchers and Meat Cutters 51-6052 Tailors, Dressmakers, and Custom Sewers 53-6021 Parking Attendants 53-6031 Automotive and Watercraft Service Attendants | 41-9012 | | |
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| | 53-6031 | | |
| 53-7064 Packers and Packagers, Hand | 53-7064 | Packers and Packagers, Hand | |



IMPORTANT DISCLAIMERS

All representations included in this report have been produced from primary research and/or secondary review of publicly and/or privately available data and/or research reports. This study examines the most recent data available at the time of the analysis; however, data sets are updated regularly and may not be consistent with previous reports. Efforts have been made to qualify and validate the accuracy of the data and the report findings; however, neither the Centers of Excellence for Labor Market Research (COE), COE host district, nor California Community Colleges Chancellor's Office are responsible for the applications or decisions made by individuals and/or organizations based on this study or its recommendations.

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